CA-IR-282

Ref: HECO T-10, pages 18-21 & HECO-1007 (HEI Billings).

At page 19, HECO T-10 refers to the Arthur Andersen billing methodology developed in 1992 while HECO-1007 indicates that 2006 allocation factors were used to quantify HECO's share of HEI Billings included in the 2007 test year. Please provide the following:

- a. Please provide the allocation study update relied upon to develop the various allocation factors applied on HECO-1007, including all workpapers and documentation showing the derivation of the allocation factors. [Note: Since MECO has a rate case pending at the present time, the requested information should also show development of the MECO factors.]
- b. Please specify whether the 2006 allocation factors are based on 2005 or 2006 operating and/or statistical data.
- c. With regard to HECO-1007, please provide comparable documentation showing any activity codes, related descriptions and amounts for any items not billed to the operating companies, but instead retained by HEI.

HECO Response:

a. In 1992, HECO had requested that Arthur Andersen & Co. ("AA & Co.") evaluate HEI's intercompany billing practices. AA & Co.'s report titled, *Report on Review of Intercompany Billing Methodology* ("the Report") dated October 1992 is what is referred to on page 19 of HECO T-10. HEI's current billing methodology incorporates all of the recommendations contained in the Report (which was provided as HECO-1001 in Docket No. 7700, HECO's 1992 test year rate case) and had been submitted to the PUC under cover letter dated November 9, 1992 in Docket Nos. 6998 and 6999.

AA & Co. had reviewed the attribution methods for each activity that was charged to each subsidiary. AA & Co. concluded that the attribution method for each activity was based upon a logical measure of cost causation (see HECO T-10, Docket No. 7700, page 11). The attribution methods to allocate costs to subsidiaries remain unchanged. On an annual basis (in accordance with Section 3.2 b. of the HEI/HECO Service Agreement

provided in HECO-1008, page 3), the allocation percentages for each subsidiary are calculated and are based primarily on prior year data. To determine the estimate for the test year, the allocation percentages are based on actual 2005 data.

See pages 3 through 7 of this response for the workpapers supporting the derivation of the allocation factors used in HECO-1007. The source documents for the allocation factors labeled Source A through J are provided on pages 8 through 37. Note: The allocation factors used for MECO's 2007 rate case test year estimate are also reflected on the attached workpapers.

- b. The allocation factors used in HECO-1007 to derive the 2006 and 2007 estimates were based on 2005 data which was the most current prior year annual data available at the time the rate case filing was being prepared in late 2006.
- c. See page 38 for the workpaper support of the estimated 69.6% of total operating expenses to be retained by HEI implicit in the 2007 test year forecast. HEI also retains 100% of its interest expense and income tax expense. Note that of the estimated 30.4% of costs that are billed to HEI's subsidiaries, HECO's 2007 test year amount of \$2.0 million reflected on HECO-1007 represents approximately 27% of the total estimated costs that are billed. Page 38 contains confidential forecast information for HEI, and will be submitted pursuant to Protective Order No. 23378, dated April 23, 2007.

Actual results as of 12/31/05 used for determining HEI's 2006 & 2007 estimate of shared charges to HECO shown on HECO-1007 (in thousands of dollars, except as noted) **Equity Allocation Factors**

		Ref Source	HECO	RH	HELCO	MECO	ASB	TOOTS	HEIDI	HEII	HEIPI	PECS	TOTAL
Publicly-traded company related:													
Common equity Common equity %	Ē)	(A)	655,544 39.6%	118	189,407 11.4%	194,190	557,433 33.6%	2,036	19,096 1.2%	33,054 2.0%	6,511 0.4%	31	1,657,420
Preferred equity (publicly held) Preferred equity %	(2)	(B)	8,793 100.0%	0.0%	0.0%	0.0%							8,793 100.0%
Common + pref. (publicly held) equity (1) + (2) Common + pref. (publicly held) equity %	(1) + (2)		664,337 39.9%	118	189,407 11.4%	194,190 11.6%	557,433 33.5%	2,036	19,096 1.1%	33,054 2.0%	6,511 0.4%	31	1,666,213 100.0%
Common + pref. (publicly held) equity (1) + (2) Common + pref. (publicly held) equity % AUD004 & AUD005 ONLY	(1) + (2)		664,337 63.4%	118	189,407 18.1%	194,190 18.5%							1,048,052 100.0%

(A) Independent accountant's Consolidating Schedule - Balance Sheet Information.

(B) The publicly held preferred equity amount remained unchanged from the prior year actual. The amount was verified by the HECO Securities Administrator which agrees to the \$8,793 shown on the schedule above.

Actual results as of 12/31/05 used for determining HEI's 2006 & 2007 estimate of shared charges to HECO shown on HECO-1007 **Equity Allocation Factors** (in thousands of dollars)

Less: HEIPC TOTAL (agrees & HIG to pg. 1)		(110,544) 1,657,420	8,793	(110,544) 1,666,213
TOTAL		1,767,964 100.0%	8,793 100.0%	1,776,757
HIG		38,911		38,911
HEIPC HIG		71,633		71,633
PECS		31		31
HEIP! PECS		6,511 0.4%		6.511
=		33,054 1.9%		33,054
HEIDI		19,096		19,096
FOOTS		2,036		2,036
ASB		557,433 31.5%		557,433
MECO		11.0%	0.0%	194,190
HELCO MECO ASB TOOTS HEIDI HEIII		189,407 194,190 10.7% 11.0%	0.0%	189,407 194,190
Æ		118 1	0.0%	118
HECO	perations:	655,544 37.1%	8,793 100.0%	664,337
Ref Source HECO	tinued or	3	(8)	
Ref	ng discor	Ξ	(2)	(1) + (2)
	Publicly-traded company related including discontinued operations:	Common equity Common equity %	Preferred equity (publicly held) Preferred equity %	Common + pref. (publicly held) equity

Note 1: The common equity of HEI Power Corp. (HEIPC) as of February 29, 2000 and of Hawaiian Insurance & Guaranty Company, Ltd. (HIG) as of September 30, 1992 (prior to any writedowns or writeoffs of its investments) adjusted for the income tax benefits of losses on common equity are included in the relative common equity calculations shown here. HEI had made a policy decision to include HEIPC and HIG in the calculations of shareholder dependent costs since HEI must still theoretically report to all of its shareholders even with the exit from the international power business engaged in by HEIPC and with the loss of HIG. Examples of shareholder dependent costs include printing and mailing costs for the annual report and proxy and stock transfer costs. See Source A for the support for HEIPC's adjusted equity and HIG's adjusted equity.

Source:

(A) Independent accountant's Consolidating Schedule - Balance Sheet Information.

(B) The publicity held preferred equity amount remained unchanged from the prior year actual. The amount was verified by the HECO Securities Administrator which agrees to the \$8,793 shown on the schedule above.

Allocation Factors
Actual results as of 12/31/05 (except as noted) used for determining HEI's 2006 & 2007 estimate of shared charges to HECO shown on HECO-1007 (in thousands of dollars, except as noted)

	Ref	Source	HECO	표	HELCO	MECO	ASB	TOOTS	HEIDI	HE	HEIPI	PECS	HEIPC	TOTAL	ADJ	HEI Corp. (and its financing sub HYCAP) & Elim	CONS
Financing related:																	
Short-term debt		(4)	136,165		131 009	153 852	00	00	00	00	00	00		136,165		5,593	141,758
Total debt	(2)		617,297	0	131,009	153,852	0	0	0	0	0	0	0	902,158		382,593	1,284,751
Debt (Long-term & short-term) %			68.4%	%0.0	14.5%	17.1%	0.0%	%0.0	%0.0	0.0%	0.0%	%0.0	%0.0	100.0%			
Preferred equity Preferred equity %	3)	8	22,293	0.0%	7,000	5,000								34,293			34,293
Common equity Common equity %	(9)	(A)	655,544 39.6%	0.0%	189,407	194,190	557,433	2,036	19,096	33,064 2.0%	6,511	31	0.0%	1,657,420	0	(440,790)	(440,790) 1,216,630
Debt + Equity (pref. & common) Debt + Equity (pref. & common) %	(3)+(4)+(5)		1,295,134	118	327,416 12.6%	353,042 13.6%	557,433 21.5%	2,036	19,096	33,054	6,511	31	0.0%	2,593,871	0	(58,197)	(58,197) 2,535,674
Projected short-term borrowings Projected short-term borrowings %		£	0 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		80,000 100.0%	80,000
Employee related:																	
Gross payroil (excluding incentive compensation) % Gross payroil (excluding incentive compensation) %	npensation) %	<u>(</u>)	105,860	0.0%	24,058	23,804	57,503 26.6%	0.0%	%0.0 0	0.0%	0.0%	0.1%	0.0%	211,337		4,920	216,257 100.0%
# of employees # of employees %		(Q)	1,432	0.0%	330	304	1,272	0.0%	0.0%	%00 0	0.0%	2 0.1%	0.0%	3,340		1.2%	3,382
# of employees (only HUM005) # of employees (excluding ASB) %		6	1,432	0.0%	330 15.6%	304		0.0%	0.0%	0.0%	0.0%	2 0.1%	0.0%	2,068		2.0%	2,110
Tax-related																	
Pretax income Pretax income %		€	67,539 27.5%	0.1%	20,133	29,929	104,897	0.1%	559	17,080 7.0%	4,601 1.9%	9.0.0 %	0.0%	245,214 (2,070) 100.0%	(2,070)	(41,800)	201,344
General (3 factor formusa):																	
Common equity			39.6%		11.4%	11.7%	33.6%	% :	1.2%	2.0%	9.4%	%0.0	0.0%	100.0%			100.0%
Prefax income			27.5%	0.0% 0.0%	11.1%	12.2%	26.6%	800	0.2%	80.0	3600	3,000	* % 0.00	97 7%	*00	7.3%	100.0%
Average			38.7%	0.0%	10.2%	11.6%	34.3%	0.1%	0.5%	3.0%	0.8%	%0.0	%0.0	99.2%	%0.0	0.8%	100.0%
		*	-												ŀ		

Note; Where the amount was negative, the abdolute value was used since it would be illogical to allocate a negative amount.

Source:

(A) Independent accountant's Consolidating Schedule - Balance Sheet Information.

(B) Not used.

(C) Gross payroll amounts provided by subsidiaries from their payroll registers. Incentive compensation was excluded based upon discussions with subsidiaries. .

(C) Across payroll amounts provided by subsidiaries from their payroll registers. Incentive compensation was excluded based upon discussions with subsidiaries. .

(C) Not used.

(S) Not used.

(S) Not used.

(A) Board of Director Approval for Short-term Borrowing Authority for the current year (not provided as there is no allocation to any subsidiary).

Allocation Factors
Actual results as of 12/31/05 (except as noted) used for determining HEI's 2006 & 2007 estimate of shared charges to HECO shown on HECO-1007

	Ref	Source	HECO	표	HELCO	MECO	ASB	TOOTS HEID!	HEIDI	HE	HEIPI PECS HEIPC	SCS HEI	PC TOTAL	'AL ADJ		HEI Corp. (and its financing sub HYCAP) & Elim	CONS.
Pension-related:																	
# of HEIRS participants PEN005 HEIRS Admin.		(F)	1,533	0.0%	298	9.3%	1,070	6.2%			0	0.1% 0.	0.0%	3,214		1.6%	3,267
HEI Retirement Plan (market value of plan assets - actual \$) HEI Retirement plan	if plan assets - actual 9 Pension Ref 1	(g)	535,956,354		105,513,224	89,841,819							731,311,397	1,397		15,954,089	747,265,486
Total			535,956,354		105,513,224	89,841,819	0	0	0			0	0 731,311,397	1,397	0	15,954,089	747,265,486
PEN007 HEI Retirement Plan%			71.7%		14.1%	12.0%	%0.0	0.0%	%0.0	%0.0	0.0%	0.0% 0.0	%0.0	97.9% 0	%0.0	2.2%	100.0%
Master pension frust calculation (market value of plan assets - actual \$); HEI Retirement plan Pension Ref 1 (G) 53 American Savings Bank Retirement plar Pension Ref 3	arket value of plan ass Pension Ref 1 ar Pension Ref 3	ets - actua (G)	535,956,354		105,513,224	89,841,819	64,027,251	0	0			0	0 731,311,397	31,311,397		15,954,089	747,265,486
Total			535,956,354		105,513,224	89,841,819	64,027,251	0	0			0	0 795,338,648	8,648	0	15,954,089	811,292,737
PEN009 Master Pension Trust %			%0.99	0.0%	13.0%	11.1%	7.9%	0.0%	%0.0	%0.0	0.0% 0.0%		%0.0	0 %0.86	%0.0	2.0%	100.0%
OPEB PRIOZ4 (market value of plan assets w/ the exception of the executive life frust (cost) - actual \$\$) OPEB PRIOZ4 (market value of plan assets w/ the exception of the executive life frust - cost instead of market value of plan assets is being used due to HELCO's \$0 balance since 12/31/97 in order to more fairly allocate administrative time/expenses to this activity, per J. Haraga, Administrator of Finance & Investments) HELOOPER plan. BUVEBA Pension Ref 7 1,2026,240 2,239,101 1,051,406 <td>assets w/ the exceptid arket value of plan asse Pension Ref 5 Pension Ref 6 Pension Ref 7 Pension Ref 10</td> <td>on of the e ts is being (G)</td> <td>xecutive life trus used due to HELC 15,277,406 12,026,240 54,012,567 900,225</td> <td>:t (cost) -</td> <td>actual \$) slance since 1 4,629,080 2,325,758 12,351,839 108,126</td> <td>2/31/97 in order 3,232,182 2,289,101 11,190,048 95,563</td> <td>to more fairly</td> <td>allocate a</td> <td>dministra</td> <td>itive time/</td> <td>expenses</td> <td>to this ac</td> <td>23,13 23,13 16,64 77,55</td> <td>per J. Haraga, Ad 23,138,668 16,641,099 77,554,454 1,103,914</td> <td>ministrato</td> <td>r of Finance & 1,223,883 1,051,406 155,166</td> <td>24,362,551 17,692,505 77,554,454 1,259,080</td>	assets w/ the exceptid arket value of plan asse Pension Ref 5 Pension Ref 6 Pension Ref 7 Pension Ref 10	on of the e ts is being (G)	xecutive life trus used due to HELC 15,277,406 12,026,240 54,012,567 900,225	:t (cost) -	actual \$) slance since 1 4,629,080 2,325,758 12,351,839 108,126	2/31/97 in order 3,232,182 2,289,101 11,190,048 95,563	to more fairly	allocate a	dministra	itive time/	expenses	to this ac	23,13 23,13 16,64 77,55	per J. Haraga, Ad 23,138,668 16,641,099 77,554,454 1,103,914	ministrato	r of Finance & 1,223,883 1,051,406 155,166	24,362,551 17,692,505 77,554,454 1,259,080
HEI Electric Discount Trust	Pension Ref 11		40,532		46,014	42,785	0	c	c			c	129,331	129,331		2 430 455	129,331
PEN024 OPEB plan %			68.0%	%0.0	16.1%	13.9%	0.0%	%0.0	0.0%	%0.0	0.0%				0.0%		100.0%
OPEB Funding PEN026 (market value of plan assets - actual \$): HEI 401(h) HEI 401(h) HEI 401(h) HECO OPEB plan - NBU VEBA HECO OPEB plan - BU VEBA HEI Electric Discount Trust Pension Ref 7 HEI Electric Discount Trust	ie of plan assets - actu Pension Ref 5 Pension Ref 6 Pension Ref 7 Pension Ref 11	al \$): (G)	15,277,406 12,026,240 54,012,567 40,532		4,629,080 2,325,758 12,351,839 46,014	3,232,182 2,289,101 11,190,048 42,785	0000	0000	0000			0000	0 23,13 0 16,64 0 77,55 0 12	23,138,668 16,641,099 77,554,454 129,331	000	1,223,883 1,051,406 0	24,362,551 17,692,505 77,554,454 129,331
Total			81,356,745		19,352,691	16,754,116	0	0	0			0	0 117,463,552	13,552	0	2,275,289	119,738,841
PEN026 OPEB Funding %			67.9%	0.0%	16.2%	14.0%	0.0%	%0.0	%0.0	%0.0	%0.0 %0.0 %0.0		%0.0	98.1% 0	%0.0	1.9%	100.0%

Allocation Factors Actual results as of 12/31/05 (except as noted) used for determining HEI's 2006 & 2007 estimate of shared charges to HECO shown on HECO-1007

CONS.	24,362,551 17,692,505 77,554,454	119,609,510	100.0%	129,331	129,331	100.0%	1,259,080	1,259,080	100.0%	9 100 001	4 100.0%	30 100.0%
HEI Corp. (and Its financing sub HYCAP) & Elim	1,223,883 1,051,406 0	2,275,289	1.9%	0	0	%0.0	155,166	155,166	12.3%	8 98.9%	2 50.0%	7 23.3%
ADJ H IS H		0	%0.0		0	%0.0	(8	0	%0.0			
TOTAL	23,138,668 16,641,099 77,554,454	117,334,221	98.1%	129,331	129,331	100.0%	e & Investment 1,103,914	1,103,914	87.7%	11.1%	50.0%	23
HEIPC	000	0	%0.0	0	0	%0.0	of Financ 0	0	%0.0			
HEIPI PECS HEIPC	000	0	% 0.0% 0.0%	0	0	% 0.0% 0.0%	ga, Administrator	0	%0.0 %0.0 %			
Ä			%0.0 %			%0.0 %	к Ј. Нага		%0.0			
HEID	000	0	%0.0	0	0	%0.0	nded, per	0	%0.0			
TOOTS	000	0	%0.0	0	0	%0.0	o O	0	%0.0			3.3%
ASB	000	0	%0.0	0	0	%0.0	is no longer	0	0.0%			6.7%
MECO	3,232,182 2,289,101 11,190,048	16,711,331	14.0%	42,785	42,785	33.1%	s since this plan 95,563	95,563	7 6%		%0.0	3.3%
HELCO	4,629,080 2,325,758 12,351,839	19,306,677	16.1%	46,014	46,014	35.6%	d of plan assets 108,126	108,126	8,6%		%0.0	6.7%
표			%0.0			%0.0	ed Instea		%0.0		%0.0	0.0%
HECO	15,277,406 12,026,240 54,012,567	81,316,213	68.0%	40,532	40,532	31.3%	ost should be us 900,225	900,225	71.5%	1 17%	2 50.0%	17 56.7%
Source	(6)			• actual 5) : (G)			beg in 1997, (G)			(E)	(E)	(E)
Ref	f plan assets - actual Pension Ref 5 Pension Ref 6 Pension Ref 7			alue of plan assets Pension Ref 11			lan cost - actual \$ (Plan Trust%	licipants %	n nn participants %	an combined)
	HECO OPEB PENO28 (market value of plan assets - actual \$): HEI 401(th) HECO OPEB plan - NBU VEBA Pension Ref 6 HECO OPEB plan - BU VEBA Pension Ref 7	Total	PEN028 HECO OPEB %	HEI Electric Discount Trust (market value of plan assets - actual \$); HEI Electric Discount Trust Pension Rel 11 (G)	Total	PEN039 HEI Electric Discount Trust%	Postretirement Executive Life Trust Plan cost - actual \$ (beg in 1997, cost should be used instead of plan assets since this plan is no longer being funded, per J. Haraga, Administrator of Finance & Investments Postretirement Executive Life Pension Ref 10 (G) 900,225 108,126 95,563 0 0 0 0 0 1,103,914	Total	PEN031 Postretirement Executive Life Plan Trust%	Directors Retirement Plan participants PEN 020 Directors Retirement Plan participants %	Supplemental Executive Retirement Plan PEN 022 Sup. Executive Retirement Plan participants % @ 1/1/05 (projections only done @ 1/1)	Excess Plans (Excess Pay SERP & Excess Benefit Plan combined) PEN 027 Excess plan participants % @ 1/1/05 (projections only done @ 1/1)

Source:

(A) Not used.

(B) Not used.

(C) Not used.

(C) Not used.

(E) HECO Benefits division. Phyllis Hanla.

(F) HECO Benefits division, Myra O'Brien.

(F) HECO Benefits division, Myra O'Brien.

(F) HECO Benefits division, Myra O'Brien.

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HAWAIIAN ELECTRICJSTRIES, INC. AND SUBSIDIARIES Consolidating Schedule - Balance Sheet Information											
December 31, 2005		Hawaiian		American			Pacific			Reclassifi-	
(Unaudited)	Hawaiian	Electric		Savings			Energy	Hycap	The Old	cations	
(in thousands)	Electric	Company,	핖	Bank,	里	핖	Conser-	Manage-	Oahu Tug	and	
	Industries,	Inc. and	Diversified,		investments,	Properties,	vation	ment,	Services,	Eliminations	
-14004	illic.	subsidianes	nc.	Subsidianes	IIC.	nc,	Services, Inc.		<u>છ</u>	G. (C.)	Conscittated
Cash and equivalents	\$ 1.172	143	9	150 130	45	8	43	•		•	\$ 151 513
Federal funds sold				57.434	2 ,	3 .	5 .	•	•	•	57.434
Notes receivable from affiliated companies		٠	5,143		54,234	788	•		2.265	(62,430)	
Accounts receivable and unbilled revenues, net	1,187	229,977	24	24,986	183	4	7		52	(6,920)	249,473
Available-for-sale investment and mortgage-related securities	•		٠	2,629,351	٠		٠	٠	٠	•	2,629,351
Investment in stock of Federal Home Loan Bank of Seattle	•	•	1.61	97,764	•	*	ř	•	•	#25 #25 #25	97,764
Loans receivable, net		×	٠	3,566,834	٠	*	,	*	٠		3,566,834
Property, plant and equipment, net	1,840	2,473,784	3	67,126	•	э	58	•		•	2,542,776
Regulatory assets	•	110,718	•	•	٠	200		•	٠	٠	110,718
Other	7,448	266,838	*	152,331	20,287	6,892	•				453,796
Goodwill and other intangibles	201	٠	٠	89,379	٠	•	•	•	٠	٠	89,580
Investment in consolidated subsidiaries, at equity	1,657,519	•	•	•	94		•		**	(1,657,519)	٠
Net assets of disc ops-HEIPC	(11,735)		14,073				•	•		•	2,338
	\$ 1,657,632	3,081,460	19,250	6,835,335	74,719	7,714	46		2,290	(1,726,869)	\$ 9,951,577
Liabilities and stockholders' equity	1										
Liabilities											
Accounts payable	\$ 11,382	132,569	811	45,371	32	9	3	•	79	6,920	\$ 183,336
Deposit liabilities	((•s)	20 6 %	•	4,557,419	٠	0.00	•		0	•	4,557,419
Short-term borrowings	68,023	136,165	k	•	•	*	¥	٠	8	62,430	141,758
Securities sold under agreements to repurchase	•	•	٠	686,794	•	•	•	•	•	*	686,794
Advances from Federal Home Loan Bank	•	•	٠	935,500		()	•	•	•	•	935,500
Long-lerm debt, net	377,000	765,993	9	٠	•	×		•	*5	•	1,142,993
Deferred income taxes	(27,156)	208,374	,	(5,457)	30,854	1,548	٠	•	(166)	٠	207,997
Regulatory liabilities	33*01	219,204	•	•	•		•	•	٠	•	219,204
Contributions in aid of construction	•	256,263	•	٠	٠	ĸ	٠	٠	•	•	256,263
Other	11,753	289,340	(657)	58,275	10,776	(321)	12	(66)	341		369,390
	441,002	2,007,908	22	6,277,902	41,665	1,203	15	(86)	254	69,350	8,700,654
Minority interests											
Preferred stock of subsidiaries - not subject to mandatory redemption		34,293							•	1	34,293
Stockholders, equily											
Common stock	1,018,966	384,601	9,533	321,538	9,080	3,968	835	(369)	2,443	731,629	1,018,966
Retained earnings (deficit)	235,394	654,686	9,563	272,545	23,974	2,543	(804)	468	(396)	962,579	235,394
Accumulated other comprehensive loss	(37,730)	(28)		(36,650)					(13)	(36,689)	(37,730)
	1,216,630	1,039,259	19,096	557,433	33,054	6,511	3	8	2,036	1,857,519	1,216,630
	\$ 1,657,632	3,081,460	19,250	6,835,335	74,719	7,714	46		2,290	1,726,869	\$ 9,951,577
											S

16.	Consolidating	financial	information	(unaudited)
-----	---------------	-----------	-------------	-------------

Consolidating balance sheet	1 <u>044</u>		Dece	mber 31, 20	05		
(in thousands)	HECO	HELCO	MECO	Renew- able Hawaii, Inc.	Reclassi- fications and Elimina- tions	HECO Consolidated	
Assets						23/100/100/100	
Utility plant, at cost							
Land	\$ 25,699	3,018	4,317	_	20	\$ 33,034	
Plant and equipment	2,304,142	766,714	678,530	15-TE	_	3,749,386	
Less accumulated depreciation	(898,351)	(275,444)	(282,742)	1.770	_	(1,456,537)	
Plant acquisition adjustment, net	(550,5501)	(2.0,444)	145			145	
Construction in progress	108,060	11,414	28,282	_		147,756	
Net utility plant	1,539,550	505,702	428,532			2,473,784	
Investment in wholly owned subsidiaries,	1,000,000	303,702	420,002		<u>_</u>	2,413,104	
	383,715	.09000			(202 74E) (2)		
at equity	303,113				(383,715)[2]		
Current assets	8	3	4	120		440	
Cash and equivalents	49,700	3		128	(EA 050) (4)	143	
Advances to affiliates Customer accounts receivable, net		21 652	5,250	-	(54,950)[1]	402 905	
Accrued unbilled revenues, net	81,870 62,701	21,652	20,373	20 22	== :	123,895	
		14,675	13,945	-	E00 (4)	91,321	
Other accounts receivable, net	10,212	2,772	1,185		592 [1]	14,761	
Fuel oil stock, at average cost	64,309	7,868	13,273	-	_	85,450	
Materials & supplies, at average cost	14,128	3,204	9,642	-	-	26,974	
Prepayments and other	89,982	15,929	8,991	400	(54.050)	114,902	
Total current assets	372,910	66,103	72,663	128	(54,358)	457,446	
Other long-term assets	04 000	44.500	44.440			440.745	
Regulatory assets	81,682	14,596	14,440		-	110,718	
Unamortized debt expense	9,778	2,362	2,221	-	-	14,361	
Other	17,816	3,696	3,640			25,152	
Total other long-term assets	109,276	20,654	20,301		-	150,231	
	\$2,405,451	592,459	521,496	128	(438,073)	\$3,081,461	
Capitalization and liabilities Capitalization	⊕	0.000	Harana Maran	7,790,62	10 Sept. St. Colonia (1988)	U4 100-000	+Qnen
Common stock equity	\$1,039,259	189,407	194,190	118	(383,715)[2]	\$ 1,039,259	
Cumulative preferred stock-not	00.000	7 004			(G)		€@₹383-
subject to mandatory redemption	22,293	7,000	5,000	-		34,293	
Long-term debt, net	481,132	131,009	153,852	-		765,993	6555
Total capitalization	1,542,684	327,416	353,042	118	(383,715)	1,839,545	
Current liabilities	20.00						HECO
Short-term borrowings-nonaffiliates	136,165	-		-		136,165	Comes
Short-term borrowings-affiliate	5,250	49,700		-	(54,950)[1]	2000/00/04/04/04	Court
Accounts payable	86,843	19,503	15,855			122,201	-601
Interest and preferred dividends payable	7,217	1,311	1,664	-	(202)[1]	9,990	1
Taxes accrued	84,054	24,252	25,277	-	-	133,583	
Other	24,971	3,566	7,791	10	794 [1]	37,132	
Total current liabilities	344,500	98,332	50,587	10	(54,358)	439,071	
Deferred credits and other liabilities							
Deferred income taxes	160,351	25,147	22,876	-	-	208,374	
Regulatory liabilities	148,898	40,535	29,771	10200	_	219,204	
Unamortized tax credits	31,209	12,693	11,425	-	-	55,327	
Other	21,522	31,781	10,374	-	-	63,677	
Total deferred credits and					101 -2111 (2011)		
other liabilities	361,980	110,156	74,446	-	-	546,582	
Contributions in aid of construction	156,287	56,555	43,421			256,263	
	\$2,405,451	592,459	521,496	128	(438,073)	\$3,081,461	

Source A

		S Information]]	1				8		8
Fig.	Uneudled)			1	Sector States SCOOLS STATE FOR			#6 (i)			
11 11 11 11 12 12 13 13		ļ	¥		₽ }	Reclass Mcations	i				
11 12 13 13 13 13 13 13		P & 8	Corp.	HE! Eventiments, Inc.	Cop	Elminations Dr. fCr.)	Consolidated		į	Combined LEGICAL A HESI	Grouped for HEI Pint Roto
	Absets		i !								
116,000.000 126,000.000	Cash and equivalents	•		\$ 67,700,000.00	\$ 2,076,634,74		8 90,143,957,89	(87,500,000.00)	177,363,29	2,821,321.16	2,821,321,18
	Accounts receivable and			(87,700,000,00)	(130,838,47)	(11,561,480,57) (2)	9,236.54	(9.238.54)	20,072.70	20,072.70	20,072.70
17.000.013 17.	undified revenues, net	218,090.52	790,246.13	•	80,253,06		1,106,580,71	2000	21 000 11		
### 1710.200.35 \$770.200.35	Loans mostvable net		218,500.51		•	æ	218,500,51		14.004.10	218.800.51	BO'MA''/15'1
Column C	Marketable securities			•	• •						
1 1 1 1 1 1 1 1 1 1	Other investments			(o) (€)	9,710,260,35		8.710.260.15				
Control Cont	Property, plant and equipment, gross	970,163.55	16,561		23,212,487.04		40,744,057,48		į.	40.740.00.35	
13,123,091.00 1,123,091.00 1,132,2100.00	Other prose	(280,380,89)	G N		(52,100,36)		(2,707,390,22)			(2.707.390.22)	36,036,667,26
137,482,200.00 15,822,100.	Accumulated amortization palvers	7 360.16	208.75 7.608.75	•	36,440,32		E.74.23	67,500,000.00	52,654,498,63	140.219.239.86	150,140,337,81
17.482.202.01 1.50.951.45 1.50.452.105.00 1.50.251.05.00 1.50.25	Goodwill and other Intengibles	1, 200.10	2	• •	• •		(7,752.91)			(7,782.91)	
1,123,971.57 1,1442,206.00 1,5,223,105.00 1,5,233,105.00 1,5,233	Investment in wholly owned			ĸi			• •		70 3.		
# 137.482,200.04 # 19,522,105.00 # 19,522,105.	subsidierles, at equity	37,133,957.57		•	•	(1) (72,133,967,57) (1)					
Security			200	•			*				
1, 271 15 15 15 15 15 15 15		- 1	9 15,522,105,UU		W. W. W. W. W.	48,8855,448.14)	130 202 202 50		8 52,913,901.00	8 192,196,193.81	192,196,190,61
1973 1973	Lieblinies and stockholders' equity						93	5 9		101 101	
1 1 1 1 1 1 1 1 1 1	Ceptimes	,							¥		
15 15 15 15 15 15 15 15	Accounts payable - trade	8 103,951,44	1,642.64		\$ 103,962.13		\$ 299,578.21				2.4
15 15 15 15 15 15 15 15	Interest payable - HEI	14231.85					14,231.85	*			35
151,002.00 151,002.00 150,002.13 1542,84 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13 1542,80 153,002.13	merest payable - HERDI	12,748.07					12,748.07			•	*
1,000,001.36 1,00		151,692.00	100	39			161,692,00				
1 1 1 1 1 1 1 1 1 1	one so the control of	00'000'68				•	48,000.00	10			
17.073.100.00 17.073.100.0		88	1,642.64	•	183,982,13			22			826,275,57
1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.77 1282-93.97 1282-93.77 128	Long-term debt (HEIT) I nen)	17 073 100 00	0.00		5.		n	*			2,955,359,37
1,525,514.74 1,52	Deferred income taxes		1126.243.77				(126.243.77)				43.229.920.10
	Unamortized tax credits				*			a Si		•	
21,000,300.501 12,310,917.30	B	641.286.88	887.007.88		•	•	1,525,314,74	•			
132,44,200.00 2,250,000.00 35,04,451,21 130,452,21 130,452,00.00 10.0.2	Total Rebiffities	21,070,367.61	12,310,917,30	•	183,862,13	11,881,490.57	22,023,778,47		They was	0.3891	. 66,752,291,53
133,49,200.00 2,290,000.00 2,20	Obsert to all desired from the contract			3	36 714 34		RVA 314 98	2	02 017	47 BK	AC 214 978
(17.107.402.57) 901,107.70 C.	Common shork and paid to cardial	133 549 280 00			36,404,451,21	JB,854,451,21 (1)			A TO	00.7	
\$ 17.48,206,04 \$ 15.82,105.00 \$. \$ 34,726,404.00 \$ 4,495,401.0 \$ 130,725.00.00 \$	Retained sernings (deficits)	(17,127,442.57)		•	(2,121,316.91)	(1,520,463.84) VS			.	VOI 4.0	18583
\$ 137.482.285.04 \$ 13.522.185.00 \$ 5.4851.500 \$ 4.885.48.14 \$ 130.5252.58			-	.				.25))	i i i i i i	440 440 044
\$ 137.482.205.04 \$ 15.222.105.00 \$. \$ 54.853.520.08 \$. 48.885.445.14 \$ 138.252.252.89	Total stockholders' equity	116,421,857.43	3211,187.70	.	20,46,80	27,133,867,57					140,443,444,45
	Total Mebilities and			•	*** ***	77 077 200 07 0	AT 178 787 197 14				180, 100, 107, 61
(9)	Mockholders' equity	\$ 137.4K.708.0m	1 15 22 100 10		-						
						- 41		ź			

THE HAWAIIAN INSUR. GUARANTY COMPANY, LIMITED AN. BSIDIARIES CONSOLIDATED BALANCE SHEETS SEPTEMBER 1892

Source B

INTEROFFICE CORRESPONDENCE

Hawaiian Electric Industries, Inc.

December 30, 2005

To:

Cheryl Sakai

From:

Carol Imai M

Subject:

Publicly-held preferred stock

Please confirm that as of 12/31/05 the following series (and its related amounts) are the only <u>publicly-held preferred stock for all utilities</u>:

		\$000's
Series C	HECO	\$3,000
Series D	HECO	\$1,000
Series E	HECO	\$3,000
Series I	HECO	\$1,793
Series		
Series		NAME OF THE PROPERTY OF THE PR

Total

\$8,793

Carol, - I can't verify whether C, D, E, and I are publicly held, but for intercompany billing purposes only you can assume that they are publicly held (based on the large number of holders for each of these series). Call me at ext. 7965 if you have any questions (QUIPS not included above.)

Reviewed and verified by:

Cheryl Sakai, Securities Administrator

Date:

Please return this form to me by **Friday**, **January 20**. If you have any questions, please call me at 543-7920.

Source C HECD

AUTO SUBMIT HEC	HAWAIIAN BLECTRIC COMPANY, INC	COMPANY, INC.		
Run on: 12/28/05 at: 12:41:23 Perlod: 12/05	Tax and Balar	Balancing Report		Version: 5.2.37.01HW
	Current	AMOUNT Year-To-Date	FICA	ATOS
Base Earnings Police Earnings	3,659,142.12	93,234,266.47	93,234,266.47	93,234,266.47
Overtime Pay: Extra Straight Time Time and a Raif Collout Callout Penaltia	189.122.39 189.136.66 64.879.15 84.879.15 3.57,848.76	04664	522 2203,370 2055,186,52 2055,825 2055,825 2055,825 2055,825 2055,825	nada nooda adnoon adnoon adnoon adnoon bulgas bulgas adnoon adnoon adnoon
Exception Pay Shift Higher Duty Differentials Total Productive Costs	4, 07,000,000,000,000,000,000,000,000,000	2000 2000 2000 2000 2000 2000 2000 200	2005 2005 2005 2005 2005 2005 2005 2005	79012 000 79012 000 79012 000 79012 000 79012 000 79012 000
Cash Adjustment Instructor GROSS PAY	900.00	460	23,260.	23,260.
Other Pay Meals Tip Bonus Face Bonus Cash Bonus Total Other Pay GROSS RARNINGS	10,056.00	358,650.00 835,762.00 21,622.00 108,66,468.33	358,650.00 835,760.00 1,622,048.39 108,461.309	358 358 358 357 357 357 357 357 357 357 357 357 357
Other Taxable Income: Flax Tedits Less: Flax Bent Less: Flax Spend Less: Flax spend Less: Taxansp Spend Temp Disability Inc	111,086 80 141,575 42 28,563,37 3,367,48	32 466 903 903 908 84 481 485 98 481 745 745 745 745 745 745 745 745 745 745	785.534 787.245 741.	2,642,534.88
Meter Tampering Reimb Class Taxable Reimbursements Retired Def Exec	0000		111,811.65	4,389.29 111,811.65
SERF SER TAXABLE OCHEL TAX Income	3,847.77	1,501,252.74-	1,501,252.74-	2,570,336.59
Less: HEIRS Less: Deferred Exec Bonus	259,227.38	10,366,466.02		
Non-Cash Allowances Group Term Life	15,176.34	377,896.60	377,896.60	377,896.60

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Req. By: AUTO SUBMIT HEL Run. On; 12/21,05 at: 07:39:54 Period; 12/35,05	HAWAII EURCTRIC LIGHT Tax and Balancing	LIGHT CO., INC.	1	Page: Report: Report: Version: 5,2.37.01FW
	Current	AMOUNT Year-To-Date	FICA	ATTY
Base Earnings Police Earnings	767,351.47	19,331,743.28	19,331,743.28	19, 331, 743.28
Overtime Pay: Extra Straight Time Time and a Raif Doubletime	11,324.77	2,224,812.45	224,812.45	224,812.45
Callout Penalties Total Overtime Pay	201910 20	1,193,089,23	1,193,059,23	1,154,32
		BA ONF OFF	4,440,426.98	4,440,426.98
Nigher Duty Differentials Total Exception Total Dragherive Coses	80 EEEE SECTION OF THE SECTION OF TH	26,311.56 186,562.36 284,047	96,311.56 186,562.36 1,167.47	186,352,36
)	200	24,057,914.65	24,056,211.65	24,056,211.55
Other pay	0	24,057,914.65	24,056,211.65	24,056,211.65
Tip Bonus Exec Bonus	6,624.00	139,284.00	139,284.00	139,284.00
Cash Bonus Total Other Pay GROSS BARNINGS	6, 624-00 993, 292, 36	225,150,00 454,701,00	225,100.00	225,100.00
Other Taxable Income: Flex Credits	25.55	167 633	C0.212,U1C,1**	24,510,912.65
Lease: Flex Bent Lease: Flex Spend Lease: Transh Month	32,617,02	779,622.85	779,622.85 779,965.86	562,721.71
Temp Disability Inc	000	15,679.12	15,679.12	00.00
Reimb Class Taxable Reimbursements Retired Def Exec	2,042,00	6,224,16	6,224.16	6,224,16
SERP Other Taxable Other Toxal Other Tax Income	350.00	266 266 266 266 266 266 266 266 266 266	8.400.00	00,004,000
Less: HEIRS Less: Deferred Exec Bonus	52,926.96	200		10.000
Non-Cash Allowances		D 122		

Source C HELCD

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Source C MECO

AUTO SUBMIT MEC	MAUI ELECTRIC	ELECTRIC COMPANY, LITD.		
od: 12/21/05 at: 08:17:26	Tax and Bala	Balancing Report		Version: 5.2.37.01HW
		AMOIJNT	FICA	SUTA
	Current	Year-To-Date	YTD	OTY
Base Earnings Police Earnings	765,068.86	19,700,251.36	19,700,251.36	19,700,251.36
Overtime Pay: oth Time Pays and a Raif Callour Penal Lie Penal Lie Total Overtime Pay	17, 733 .67 80, 193 .67 80, 193 .67 26, 031 .53 26, 031 .53 175 .786 .53	2,213,416.91 2,213,416.91 665,615.144 665,615.149 3,845.57	2 28 28 28 28 28 28 28 28 28 28 28 28 28	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
E >	4 4 7 2 1 0 1 0 6 6 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	110,379 139,698 5,194 255,272	130 130 130 130 130 130 130 130 130 130	130 130 255 255 255 255 255 255 255 255 255 25
Cash Adjustment Instructor GROSS PAY	0.00	23, 804, 181, 425	0.00 455.60 23,802,501.42	802
Other Pay Maisonne Typ Bonus Care Bonus Care Bonus Total Other Pay GROSS EARINGS	4, 368.00 000 000 953, 8368.00	125.172.000 142.070.000 145.172.000 24,262.144.00	125,172.00 142,072.00 194,900.00 24,264,645.00	125, 172 142, 072 194, 900 1662, 144
Other Taxable Income: Fless Credits Fless Flex Bend Fless: Flex Spend Fless: Transp Spend Fless Tampering Flexiblity Inc Flexiblity Inc Flexible Relationsements Flexible Relationsements Flexible Relationsements Flexible Relationsements Flexible Relationsements Flexible Relationsements	44 NBO 000000	7827 512 7874 559 91 7874 559 91 18 71 67 00 18 51 55 6 50 00 10 0	562,512.84 63,786.91 63,786.90 18,510.00 46,500.00	562,512. 0. 46,504.
Other Taxable Total Other Tax Income	12,297.77-	223,695.61-	223,695.61-	609,016.85
Less: HEIRS Less: Deferred Exec Bonus	54,445.78	2,017,124.90		
Non-Cash Allowances Group Term Life	3,978.09	98,689.45	98,689.45	99,689.45

Source C ASB

American Savings Bank

ASB 2005 Payroll (excluding fringe benefits/imputed income/bonuses/incentive pay)

Company	2005 F	ayroll
American Savings Bank	\$	56,344,081.00
Bishop Insurance Agency	+	1,158,433.00
Total	\$	57,502,514.00

 \bigvee

Source	C
PECS	

AUTO SUBMIT PEC	HAWAIIAN BLECTRIC INDUSTRIES	INDUSTRIBS		Page:	2 uwamana
Feriod: 01/99	Tax and Balancir	Balancing Report		Version:	5.2.37.01HW
	Current	NT Year-To-Date	FICA		SUTA
Base Earnings Police Earnings	3,184.62	110,024.46	110,024.46	d	110,024.46
Overtime Pay: Extra Straight Time Extra Straight Time Doubletime Callout Penalties Total Overtime Pay	0.00 91.73 0.00 0.00 91.73	60 000000 000000	980000000000000000000000000000000000000		9800000
Exception Pay Sinft Higher Duty Differentials Total Exception Total Exception	00.00 00.00 00.11.00 00.17.00 00	1,422.00	1110000	,	44, 80,000 12,000 10,000
Cash Adjustment Instructor GROSS PAY	3,327.35	112,426.72	0.00		0.00
Other Pay Meale The Bonus Exec Bonus Cath Bonus Cath Bonus Total Other Pay GROSS RAWNINGS	6.00000 000000 000000 000000 000000	4, 2950 000 000 117, 2550 117, 2550	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00000
other Taxable Income: Less Teax Bend Less Flex Bend Less Teax Bend Rein Class Flex Less Feinburgements	4.0 6.0000000000000000000000000000000000	7,400 H	2,357.77 10,462.49 0.00 2,341.78	,	5,357.77 00.00 00.00 00.00
SERP Other Taxable Total Other Tax Income	119.02-	2,762.94-	2,762.94-		5,357.77
Less: HEIRS Less: Deferred Exec Bonus	92.04	5,772.20			
Non-Cash Allowances Group Term Life	4.73	143.20	143.20		143.20

Source C HEI

AUTO SUBMIT HEI	HAWAIIAN ELEC	HAWAIIAN ELECTRIC INDUSTRIES		
Run on: 12/28/05 at: 10:19:48 Period: 01/98	Tax and Bal	Balancing Report		Vergion: 5.2.37.01HW
	Current	AMOUNT Year-To-Date	FICA	STUZ
Base Earnings Police Earnings	180,170.16	4,911,999.28	4,911,999.28	4,911,999.28
Overtime Pay: Extra Staight Time Extra Staight Coupletime Callout Penallout Total Overtime Pay	600000	8,114,97 0,00 0,00 8,421,91	306.97 114.94 0.00	6 110 00 00 00 00 00 00 00 00 00
Exception Pay Shift Higher Duty Differentials Total Exception Total Productive Costs	0.00	4,920,421.19	000000000000000000000000000000000000000	16.121.21
Cash Adjustment Instructor GROSS PAY (EXC). VCNIX (L. M. M.)	180,170,16	4,920,421.19	4,920,421.19	4,920,421.19
Meals Tip Bonus Exec Bonus Cash Bonus Total Donus GROSS EARNINGS	180,170.16	2,810,809.00 2,810,809.00 466,678.11 4,817.14	8, 25, 26, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	2,810 6,00 1,810 1,809 10 1,317 1,71
Other Taxable Income: Flex Credits Less: Flex Send Less: Transp. Spend Less: Transp. Spend	3,393,06 2,148,39 1118,41	138,080.25	138,080.25 138,080.25	87,521.61
Temp Disability inc Meter Tampering Reinb Class Taxable Reimbursements Retired Def Exec	00000	12 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,200.00	31,573.69 0.00 1,200.00
SERP Other Taxable Total Other Tax Income	2,150.00	41,386.01 54,750.00 40,829.86-	82,215.87-	54,750.00
Less: HEIRS Less: Deferred Exec Bonus	9,189.55	519,645.96		
Non-Cash Allowances Group Term Life	782.11	24,363.16	24,363.16	24,363.16

Source D

HAWAIIAN ELECTRIC INDUSTRIES, INC.

EMPLOYEES AT MONTH-END (Excludes All Leaves, Part Time, and Temporaries) 2005

1.75.7	Jan	Feb	Mar	Apr	May	LES.	Job	Aug	Sep	Oct	Nov	Dec	
	1,405	1,414	1,413	1,422	1,427	1,432	1,440	1,438	1.442	1 444	1 437	1 432	
	306	305	305	307	308	311	314	318	321	320	323	330	
- 3	306	307	309	309	311	310	308	307	306	305	306	304	
W	110	2,026	2,027	2,038	2,046	2,053	2.062	2.063	2.069	2.089	San Cal	BAD C	
	1,293	1,285	1,288	1,286	1,299	1,294	1,279	1,273	1,272	1,278	1,277	1,272	
	4	4	4	4	4	က	က	2	2	2	2	2	
	-		-	-	-	-	-	-	-	•	-	(-) @)Discops
-	298	1,290	1,293	1,291	1,304	1,298	1,283	1,276	1,275	1,281	4,280	4,275	-
100	46	46	74	96	45	46	97	46	45	45	42	42	
													:
m	361	3,362	3,367	3,375	3,395	3,397	3,391	3,385	3,389	3,395	3,388	3,383	,
.=	ss, all figur	res represe	For standardization purposes across all companies, all figures represent the number of full-time regular employees or equivalent. Actual number of employees on payroll may differ.	er of full-tim	ne regular er	nployees o	r equivalent	. Actual nu	mber of emp	loyees on p	ayroll may d	iffer. $\langle 1 \rangle$	4€)

Source E

HEI Participant Counts as of 1/1/2005

			Act					120		Retired		Grand
<u>Plan</u>	Comp.	Vested	<u>PartVst</u>	NonVst	Total	Trf Out	LTD	<u>VT</u>	Empl	Benef 1	Total	<u>Total</u>
Qualified Reti	rement Pl	ans									9	
addinice ricii											-	
HEI	HECO	1,033	0	315	1,348	2	8	191	972	120	1,092	2,641
	HELCO	224	0	72	296	0	0	31	166	15	181	508
	MECO	240	0	58	298	0	1	39	140	. 16	156	494
	HEI	<u>39</u>	<u>o</u>	<u>6</u>	<u>45</u>	<u>3</u>	<u>0</u>	7	11	1	12	<u>67</u>
	Total	1,536	0	451	1,987	5	9	268	1,289	152	1,441	3,710
ASB	ASB	678	0	478	1,156	2	0	362	138	12	150	1,670
		U(-9)								4		
Non-Qualified	Retireme	nt Plans										
HEI SERP	HECO	- 1	0	0	1	0	0	0	1	. 0	1	(o
HLI SERI	HEI	1	Ō	Ō	1	Ō	<u>o</u>	Q	1	0		2
	Total	2	Ö	<u>o</u>	2	Ö	ŏ		2	ŏ	1 2	4
							ستيد.					
ASB SERP	ASB	12	0	1	13	0	0	1_	5	:0	5	. 19
Excess Plan/	HECO	3	0	7	10	0	0	0	7	: .0	7	(17
Ex Pay SERP	HELCO	0	ō	2	2	0	0	0	o	0	ó	2
EX Pay SERI	MECO	0	0	1	1	ő	o	ő	ő	0	o	\sim
	HEI	2	0	2	4	1	0	Ö	2	ō	2	7
	TOOTS	0	0	0	0	0	0	0	1	ō	1	\sim
	ASB	<u>o</u>	0	0	0	<u>o</u>	0	0	2	0	2	$\sum_{i=1}^{n}$
	Total	5	0	12	17	1	ō	0	12	ō	12	30
Directors	HECO	0	0	0	0	0	0	0	1	0	1	(1
omeo.c.	HEI	<u>2</u> 2	0	<u>O</u>	2	<u>0</u> 0	<u>0</u>	<u>o</u>	6	<u>o</u>	<u>6</u>	<u></u>
	Total	2	0	0	2	0	0	0	7	0	7	9
OPEB Plan												
HECO OPEB	HECO	213	115	1,020	1,348	0	8	0	966	28	994	2,350
	HELCO	69	25	202	296	0	0	0	170	3	173	469
	MECO	60	23	215	298	0	1	0	137	7	144	443
	HEI	246	6	<u>35</u>	45	0	0	0	1 202	ō	10	55
	Total	346	169	1,472	1,987	0	9	0	1,283	38	1,321	3,317
	HECO	213	115	1,020	1,348	0	8	0	797	0	797	2,15
FI FC DISC				111 6 7 1 1 1 2 7 1 1 1 1 1 1 1		o	Õ		147	ő	147	44
ELEC DISC	HELCO	69	25	202	290	U	U	U	141	U	141	~~.
ELEC DISC	HELCO MECO	69 <u>60</u>	25 <u>23</u>	202 215	296 298	Ω	1	0 <u>0</u>	113	0	113	412

¹ Excluding alternate payees (QDROs).

ed - gettig

Fujimoto, Debbie

From:

lmai, Carol

nt:

Tuesday, January 17, 2006 10:11 AM

Fujimoto, Debbie

Subject:

FW: HEIRS Plan - Participant Count

Source F

FYI

From: O'Brien, Myra

Sent: Thursday, January 12, 2006 11:34 AM

To: Imai, Carol

Subject: HEIRS Plan - Participant Count

I just got the participant data breakdown this morning. HEI will need to pick up the charges for HEI, HP, HTBYB and PV participants. If you have any questions, call me at x4674.

HEIRS Participants with balances > \$0.00 As of 12/31/2005

Company	Division Q4 2005
ASB	ASB 1,070
HE	HE (HECA) 1,533
HI	HI(HEI) 53 (a)
HL	HL (HELCO) 298
HI	HP (HEIPC) 7 6) -disc ops
HI	HTBYB (TOOTS) 6 (A)
ME	ME (HECO) 303
PE	PE (NECS) 4
HI	PV (Physion) 1 @ - sold in 2003

TOTAL 3,275

HEI COUGlidated E@ 67

Myra O'Brien
HECO Compensation & Benefits Division
543-4674

Total 3,275. ...

Less: HETPUdiscops) 7.
PVT (SOM in 2013) 1.
Adj: total 3,267. ...

HEI RET PLAN
Asset Reconciliation
(based on The Bank of New York's final trust & financial statements)
2005

7AL 74,539	7,500,000 14,535,037 0 22,035,037	(40,308,615) (2,816,730) (351,506) (43,476,851)	0	40,552,733	28 747,265,486 564. 1 Sonko	e (
TOTAL 303 728,154,539			254	1	1 2	
HEI 28 14,855,003	00 027 27 301,736 0 0 07 72	© 4	404,254	849,635	(87) (9) 15,954,089 71 15,549,835 152) 404,254	
MECO 3 86,596,328	0 1,000,000 1 1,738,527 0 0 0 0 1 2,738,527	6) (3,973,876) 1) (335,780) 8) (43,988) 5) (4,353,644)	8 (5,952)	3 4,866,608	89,841,8 89,847,7 (5,5	
HELCO 102,496,113	500,000 2,052,471 0 2,552,471	(5,201,896) (397,171) (48,698) (5,647,765)	381,278	5,731,163	(3) 105,513,22 105,131,94 17/26 381,27	
HECO 524,207,095	6,000,000 10,442,303 0 16,442,303	(30,740,941) (2,026,099) (251,950) (33,018,990)	(779,580)	29,105,327	199 535,956,354 100 536,735,934 100 (779,580) Date 3/37/36	
Market value, 1/1/05	Income (a) Contributions (b) Int, div & other income (c) Adjustments (d) Total	Disbursements (a) Benefit payments (b) Investment mgt / trustee fees (c) Other expenses (d) Total	Transfers	Net realized & unrealized gains (losses)	(6) Adjustment to beginning market value (7) Market value, 12/31/05 Prepared by Reviewed by Multiple Alexandrian Multiple Alexand	JEIRetPlanfinal05 2/27/2006 2:45 PM
Ξ	(2)	3	(4)	(2)	(6) (7) Prep Revi	FIRM

Source G Ref 3

AMERICAN SAVINGS BANK RETIREMENT PLAN Asset Reconciliation (based on The Bank of New York's final trust & financial statements) 2005

(1)	Market value, 1/1/05		54,748,643
(2)	Income (a) Contributions (b) Interest, dividends & other income		6,139,103 1,224,738
	(c) Adjustments		0
	(d) Total		7,363,841
(3)	Disbursements		
	(a) Benefit payments		(1,160,998)
	(b) Investment mgt / trustee fees		(233,192)
	(c) Other expenses		(247,303)
	(d) Total		(1,641,493)
(4)	Adjustment to beginning market value		5
(5)	Net realized & unrealized gains (losses)		3,556,255
(6)	Market value, 12/31/05		64,027,251 6
. ,			64,027,251
Prep	pared by July Harry	Date	2127/060
Revi	ewed by Fellich Lw	Date	2138106

Source G Ref 5

HEI 401(h) Asset Reconcillation	(based on The Bank of New York's final trust & financial statements) 2005
---------------------------------	---

	Coased Oil 11'd Daily Oil 16'd 16'd 16'd 16'd 16'd 16'd 16'd 16'd	2005	5	ferromone in		
		HECO	HELCO	MECO	밀	TOTAL
$\widehat{\Xi}$	Market value, 1/1/05	14,416,006	4,386,451	3,124,193	1,116,326	23,042,976
(3)	Income (a) Contributions (b) Int, div & other income (c) Adjustments (d) Total	774,283 290,505 0 1,064,788	18,500 88,720 0 0 107,220	19,000 62,545 0 81,545	12,250 22,781 0 35,031	824,033 464,551 0 1,288,584
(3)	Disbursements (a) Benefit payments (b) Investment mgt / trustee fees (c) Other expenses (e) Total	(931,126) (56,182) (10,600) (997,908)	(99,367) (17,044) (3,223) (119,634)	(136,291) (12,074) (2,288) (150,653)	(17,127) (4,352) (822) (22,301)	(1,183,911) (89,652) (16,933) (1,290,496)
(4)	Transfers	(31,559)	2,352	0	29,207	0
(2)	Net realized & unrealized gain (loss)	826,107	252,693	177,098	65,622	1,321,520
(9)	Adjustment to beginning market value	(28)	(2)	(1)	(2)	(33)
£ .	Market value, 12/31/05	15,277,406 15,308,965 (31,559)	4,629,080 [®] 4,626,728 2,352	3,232,182 3,232,182 0	1,223,883 1,194,676 29,207	24,362,551 24,362,551 0
Prepar Reviev	Reviewed by John Ru	Date 0106		ť		

Source G Ref 6

Asset Reconciliation (based on The Bank of New York's final trust & financial statements) 2005 HECO OPEB PLAN - NBU VEBA

		HECO	HELCO	MECO	里	TOTAL
Ξ	Market value, 1/1/05	8,694,421	1,872,354	1,799,426	858,044	13,224,245
(2)	Income (a) Contributions (b) Int, div & other income (c) Adjustments (d) Total	4,621,268 212,451 0 4,833,719	604,233 43,523 0 647,756	660,126 42,348 0 702,474	149,331 19,891 169,222	6,034,958 318,213 0 6,353,171
(3)	Disbursements (a) Benefit payments (b) Investment mgt / trustee fees (c) Other expenses (d) Total	(1,841,035) (36,098) (81,048) (1,958,181)	(273,047) (7,388) (16,373) (296,808)	(285,842) (7,196) (16,132) (309,170)	(39,851) (3,323) (7,224) (50,398)	(2,439,775) (54,005) (120,777) (2,614,557)
(4)	Transfers	(32,774)	3,699	0	29,075	0
(2)	Net realized & unrealized gain (loss)	489,055	98,757	96,371	45,463	729,646
(9)	Adjustment to beginning market value	0	0	0	0	
(3)	Market value, 12/31/05	12,026,24@	2,325,758 ^(b) 2,322,059	2,289,10	1,051,406 1,022,331	17,692,505 17,692,505
Prep	Prepared by Alum Haugh	(32,774) Date 2/37/06	3,699	0	29,075	0
Revi	Reviewed by Hum ful	Date 3/28/06	106			ţ

NBUVEBAfinal05.2/27/2006.4:15 PM

Source 6 Ref 7

HECO OPEB PLAN - BU VEBA Asset Reconciliation	(based on The Bank of New York's final trust & financial statements) 2005
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		HECO	HELCO	MECO	TOTAL
$\widehat{\Xi}$	Market value, 1/1/05	51,975,586	11,305,025	10,296,677	73,577,288
(2)	Income (a) Contributions (b) Int, div & other income (c) Adjustments (d) Total	1,639,750 1,126,738 0 2,766,488	886,278 249,058 0 1,135,336	619,049 228,508 0 847,557	3,145,077 1,604,304 0 4,749,381
(3)	Disbursements (a) Benefit payments (b) Investment mgt / trustee fees (c) Other expenses (e) Total	(2,909,915) (191,203) (15,131) (3,116,249)	(745,041) (42,149) (3,300) (790,490)	(426,823) (38,562) (3,025) (468,410)	(4,081,779) (271,914) (21,456) (4,375,149)
(4)	Transfers	(137,706)	139,326	(1,620)	0
(2)	Net realized & unrealized galn (loss)	2,524,448	562,642	515,844	3,602,934
(9)	Adjustment to beginning market value	0	0	0	
(7)	Market value, 12/31/05	54,012,567 ⁽¹⁾ 54,150,273	12,351,839 ^(§) 1 12,212,513	(1),190,048 11,191,668	77,554,454 77,554,454
Prepared by	od by Syder frage	(137,706) Date 2/A7	139,326	(1,620)	0
Reviewed by	red by Column du	Date Pla	Startos		

9.0% 5.0% 5.5%

Long term asset return rate: BU VEBA, 401(h) Account: NBU VEBA Elec Disc Trust

10.0 -> 5.0% 5.0% 4.0%

Trend Rates: Medical: Dental:

* Estimated.

Vision:

%0.9

Discount Rate

	6.0% Discount		00.	MECO	ıtal	ASB*	TOOTS'	Grand Total
BU VEBA		\$ 1.325.181	622,717	435,962	2,383,860	•	0	2,383,860
NBU VEBA		\$ 3.030.111	500,373	472,201	4,120,488	0	0	4,120,488
(3)		\$ 934.867	(58,791)	56,114	975,968	0	0	975,968
Elec Disc (4)			275,790		1,313,996	0	0	1,313,995
Exec Life		\$ 6900 225 4	(b) 108,126 L	95,563	1,259,080	0	0	1,259,080
Total (6)		•	•	1,254,742		35,060	4,000	10,092,391

Exhibit 3C

Retiree Medical Plans: 2005 OPEB Postretirement Benefit Cost under SFAS 106

Source G Ref 11

	(based on The Bank of New York's final trust & financial statements)	lew York's final trust 2005	& financial state	ments)	
		HECO	HELCO	MECO	TOTAL
(1)	Market value, 1/1/05	15,462	41,125	26,903	83,490
(5)	Income (a) Contributions (b) Int, div & other income (c) Adjustments (d) Total	400,000 1,512 0 401,512	95,000 1,042 0 96,042	85,000 915 0 85,915	580,000 3,469 0 583,469
(3)	Disbursements (a) Benefit payments (b) Investment mgt / trustee fees (c) Other expenses (d) Total	(367,500) (3,178) (195) (370,873)	(104,628) (2,135) (112) (106,875)	(71,322) (1,769) (94) (73,185)	(543,450) (7,082) (401) (550,933)
(4)	Transfers	(11,488)	11,780	(292)	0
(2)	Net realized & unrealized gain (loss)	5,919	3,942	3,444	13,305
(9)	Adjustment to beginning market value	0	0	0	0
£	Market value, 12/31/05	40,532 (2) 52,020 (11,488), /	40,532 (2) 46,014 (2) 52,020 34,234 (11,488), 12010 11,780	42,78 5 43,077 (292)	129,33 (2) 129,331
Prepa Revie	Prepared by July Hung	Date 2	rolacle		

ElecDiscfinal05.2/27/2006.5:18 PM

9	>		SOURCE I
1-16-06	\$ 1,806,384 NE 387,910 21,270 2,215,564 1,644,687 16,452 1,944,142		12 127,444 67 127,444 80 125,644 87 127,444 87 126,689 126,689 126,689 126,689 126,689 126,689 126,689 126,689 126,689
Date Reclassifications and and Dr. (Cr.)	் விவ ் இன	1,532 1,532 1,532 1,532 1,080 1,080 1,080	(126) 157,912 (126) 157,912 (126) 157,867 (126) 156,787 (126) 156,787 should be zero ==>
The Old shu Tug envices, inc.	1		(126) (128) (128) should
Reviewer's initial Hycap 1 Manage O ment, 8		1 11	1.11.
Rev Pacific Energy Conser- vation Sendoes, inc.	127	(94)	(94)
1-/3-6£ HEI HEI s, Properties, Inc.	4,682	4,601	3,476
Date / · · / HEI Investments, F Inc.	17,270	17,080	16,249
SC American Sevings Bank, F.S.B. and subsidiaries	387,910 387,910 283,009	104,901	64,928 64,883 64,883 64,883 64,883 64,883 64,883
Preparer's initial, HEI Diversified, Inc.	38 98 , 88 88	(603) (603) (603) (7) (1) (156)	(403) (403) (403.3)
Openies 1/300 - Hawaiian Electric Company, Inc. and Discussion Subsidiaries	1,806,384	161,703 (49,408) 2,020 (315) 5,105 118,505	73,882 1,080 72,802 72,802 0
IES Hawalian Electric Industries,	\$ 824 824 824 15,465	(14,641) (14,641) 156,787 (27,114) (27,114)	127,444 127,444 127,444 (755) \$ 126,689
HAWAIIAN ELECTRIC INDUSTRIES, INC. AND SUBSIDIARIES Consolidating Schedule - Income (Loss) Information Year ended December 31, 2005 (Unaudited) (in thousands)	Revenues HES produx Electric utility Bank Other Expenses Expenses Electric utility Expenses Expenses Expenses Expenses Other	Operating income (loss) Electric utility Bank Other Equity in net income of subsidiaries Interest expense-other than bank Allowance for borrowed funds used during construction Preferred stock dividends of subsidiaries Allowance for equity funds used during construction Income (loss) from continuing operations before income taxes and minority interest Income (loss) from continuing operations	before minority interest Minority interest in net income of subsidiaries Income from continuing operations Preferred stock dividends of parent Income from continuing operations for common stock Income (loss) from discontinued operations Net income (loss) for common stock Check total 1: foot = crossfoot Includes HEI Power Corp. Net income per trial balance

HECO IN HEI FORMA! Twelve months ended December 31, 2005						
	HECO	HELCO	MECO	표	Trust I&II	TOTAL
Revenues OPERATING REVENUES TOTAL	1.204.219.418	294,411,126	303,078,987	0	0	1,801,709,531
Investment Income & other income/gain	3,541,412	548,669	484,194	0	0	4,574,275
Equity in Earnings of Heco Cap Trusts .	100,516	0	0	0	0	100,516
	1,207,861,346	294,959,795	303,563,181	o	0	1,806,384,322
Expenses Fuel and purchased power	759 641 043	168 016 271	170 112 687	c	•	1 007 770 004
Other operations	117,818,279	26,426,607	28.717.053	o c	o c	172 061 030
Maintenance	52,547,376	16,503,630	13,190,886	0	0	82 241 892
Depreciation	70,686,628	27,176,911	25,006,454	0	0	122,869,993
Taxes other than income	112,081,626	27,205,281	28,007,815	0	0	167 294 722
Other A & G (& other taxes)	1,217,733	49,763	98,954	176,225	0	1,542,675
	1,113,992,685	265,378,463	265,133,849	176,225	0	1,644,681,222
Operating income	93,868,661	29,581,332	38,429,332	(176,225)	0	161,703,100
Interest expense	(30,855,479)	(9,142,239)	(9,410,140)	0	0	(49,407,858)
AFUDC-debt	1,574,894	53,491	391,638	0	0	2,020,021
Preferred stock dividends (HELCO & MECO) Preferred securities distribution		(533,750)	(381,242)			(914,992)
AFUDC-equity	4,031,164	173,949	899,609	0	0	5,104,722
Income before income taxes /preferred	68,619,240	20,132,783	29,929,195	(176,225)	0	118,504,993
Income taxes	25,689,678	7,509,609	11,423,801	0	0.	44,623,088
Income before preferred Preferred stock of HECO	42,929,562 1,079,907 (P)	12,623,174	18,505,394	(176,225)	0	73,881,905 1.079,907
Not income	41 849 655	12.623.174	18,505,394	(176,225)	0	72,801,998

HECO rad income

2006 Executive Allocation for Compensation Plans

Charge Co	ode	HEI	HECO	HELCO	MECO	ASB	Total
HUM002	Comp consulting services	6	16	1	1	13	37
HUM010	Comp Comm meetings) 16.2%	43.2%+	2.7%	2.7%	35.1%	100.0%
	(Used Senior execs per 2006 Merit Budget	, 	. 1% = 4 In-pecal , whi	5.27 ₆ ich was approv	ed by Comp	Comm)	
HUM011	LTIP	5	4	1	1	7	18
	(P)	27.8%+	22.2%	5.6%	5.6%	38.9%	100.0%
	(Used 2006-2008 LTIP,	کے •(۱۱/۰) •••I, which wa		Comp Comm)			
HUM012	EICP	5	16	1	1	13	36
HUM017	EIC consulting services	13.9%	44.4%	2.8%	2.8%	36.1%	100.0%
	(Used 2006 EICP,	hich was app	roved by Com	p Comm)			
	Note: ASB removed 22 VP participants from	the 2006 EK	CP compared v	with 2005			
HUM013	Stock options with DE	8	17	1	1	15	42
HUM014	Stock options (R	19.0%	40.5%	2.4%	2.4%	35.7%	100.0%
	(Used NQSO/SARs active participants, see	attached 409	A Payout listin	g)			
Victoria y particologica (IIII-III			220	Company Company	No.		
HUM015	Exec Deferred Comp	1	2	0	0	0	3
	(E)	33.3%	66.7%	0.0%	0.0%	0.0%	100.0%
	(2006 participants confirmed with D. Kitamu		1/				
	Note: 1 ASB participant and 1 HECO partic	ipant paid off	in 2005 💤				
	C: D: 10-			•			1420
HUM016	Dir. Deferred Comp	1	0	0	0	0	1
	(2006 participant confirmed with D. Kitamura	100.0% a)	0.0%	0.0%	0.0%	0.0%	100.0%
	04/	•					
	KWDY 2/15/06		a.		2/1	5/06	
	5		10	H	<u> </u>	/	
	Prepared by	720	Approved b	y			
	Lanene Warmen	5/06		5			
	Reviewed by	_					

N-Compared 2006 count w/2005 count. (R)-Recalculated

OFFICER 2006 STRUCTURE MOVEMENT/MERIT BUDGET BY SUBSIDIARY

Company	Number of Employees	12/31/05 Base Salaries	Structure Movement	Merit Budget
HEI	6		*	
UTILITY GROUP				
HECO	(16)			
HELCO	1			
MECO				
Sub-Total	18			
DIVERSIFIED CO	MPANIES			
ASB				
Sub-Total	13			
Grand Total	37			

	MIDPOINT							120											
	MAXIMUM											.7							
DRAFT FINTEL PUNJUES	MIDPOINT MINIMUM TARGET		K	(a)											5				
	GRADE MID	E18) !	الدو توزيل	ノ	E03	ES	E15)	2)	E08	E08	E08 (C)	Eos (i)	E16 >	¥	 	\ \ ×	×	 =	
(L)	뜅	ш		MIN EOB	3.000 c		w		.				_	ш					ш
2006-2008 LONG-TERM INCENTIVE PLAN (LTIP) PROJECTED BUDGET BY INDIVIDUAL	POSITION	CHAIRMAN, PRES. & CEO, HEI	V. P. FINANCE, TREASURER & CFO	V. P. ADMIN. & CORP. SEC.	V. P. GOVERNIMENT RELATIONS	CONTROLLER	PRESIDENT & CEO, HECO	SVP, PUBLIC AFFAIRS	SVP, OPERATIONS	SVP, ENERGY SOLUTIONS & CTO	PRESIDENT, HELCO	PRESIDENT, MECO	PRESIDENT & CEO, ASB	EVP, WORKFORCE EXCELLENCE	EVP, CUSTOMER DELIVERY	EVP, LENDING	SVP, FINANCE	SVP, COMMERCIAL MARKETS	SVP, COMMERCIAL REAL ESTATE
2006-2008 LON PROJECTED BU	PARTICIPANT																		

[A] Revised down one level per Towers Pentin 2005 Executive Compensation Program Update

B

VSIVOLO EVER SAMINY STRUKTURE V pur TP recommendation P/Y print year (a. Davde min por practice)

2006-08 LTP for CON, vis 2006 LTP Budget 1/30/06

(EICP)

HAWAHAN ELECTRIC INDUSTRIES, INC. . 2006 EXECUTIVE INCENTIVE COMPENSATION PLAN - DRAFT PROJECTED BUDGET BY INDIVIDUAL

FINAL

NAME	POSITION	GR	2008 MIDPOINT	MINIMUM	TARGET	MAXIMUM
HE		20.2				
	CHAIRMAN, PRESIDENT & CEO	E18				
	FINANCIAL V. P., TREASURER & CFO	E11 (Visit Visit			
	V. P. ADMINISTRATION & CORP SEC	EOD W	.*			
	V. P. GOVERNMENT RELATIONS	E03-				
	CONTROLLER	EO4 Y				
	CONTROLLER	CO V				
, 1	8 TOTAL HEI OFFICERS					
	\sim					
Demineral down one b	evel per Towers Perrin 2005 Executive Compensation Progra	m Updale				
HAWARAN ELECTS	 RIC CO., INC.					
	PRESIDENT & CEO	E15				
	SVP, PUBLIC AFFAIRS	E08 4				
	SVP. OPERATIONS	E08 J.				
	SVP, ENERGY SOLUTIONS & CTO	E08				100
	V. P. CUST OPERATIONS/GEN. COUNSEL	E08 V				
	V.P. ENERGY DELIVERY	EOS V				
	V. P. POWER SUPPLY	E06 V				
	V. P. SPECIAL PROJECTS	E08 V				
	FINANCIAL V. P.	E06				
	V. P. GOVERNMENT & COMMUNITY AFFAIR:	E04				
	V.P. CUSTOMER SOLUTIONS	E03 V				
	V. P. CORPORATE RELATIONS	E03 V				
	V. P. CORPORATE EXCELLENCE	EQ2				
	TREASURER	E01 V				
	CONTROLLER	EO1				
	(16) CORPORATE SECRETARY	EOC V				
	· -					
MAUI ELECTRIC C	OMPANY, LIMITED					
	OMPANY, LIMITED () PRESIDENT	E05 V				
HAWAII ELECTRIC	LIGHT CO. MC.	/				
	PRESIDENT	E05 V				
	18 TOTAL UTILITY OFFICERS					

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2008 SECT IN CORES SPRICECTED HE ARE VEN NOTES.

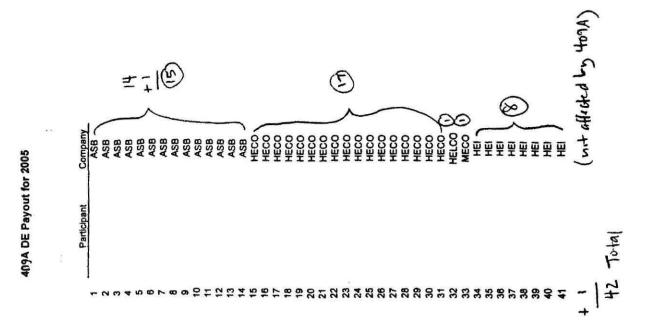
(ECP)

HAWAIIAN ELECTRIC INDUSTRIES, INC. 2006 EXECUTIVE INCENTIVE COMPENSATION PLAN - DRAFT PROJECTED BUDGET BY INDIVIDUAL

NAME	POSITION	GR	2008 _MIDPOINT	MINIMUM	TARGET	SAAYBAI BA
DIVERSIFIED	_					
AMERICAN SAVIN	IGS BANK		<i>r</i>			
	PRESIDENT & CEO	E16 V				
	EVP. WORKFORCE EXCELLENCE	K 4	/ 			
	EVP, CUSTOMER DELIVERY	K V	2			
	EVP. LENDING	ĸ ¥	,			
	EVP. FINANCE	K V				
	SVP. RETAIL SALES AND SERVICE	1 1	•			
	SVP. OPERATIONS	√ı				
	SVP. TREASURER	12				
	SVP. COMMERCIAL MARKETS	H.	,			
	SVP, RETAIL LENDING	н				
	SVP. COMMERCIAL REAL ESTATE	н				
	SVP. BRANCH ADMINISTRATION	G.				
	SVP, INNOVATIVE CHANNELS	GV	•			
	•	a A				
	13 TOTAL ASB OFFICERS		*0			
	\cup					
1	36 TOTAL EICP PARTICIPANTS					
1/	B SPACE					
(B) ASB Incressed to G	rade I from H during 2005.					

M

ZODE EXCENS COMING PROJECTED NO AND VPG 1/27/00



File: 409A 2005 DE Payout.xis, For payout

Internet Billing Budget

	Americal	Allo	cation Factor	rs:	Allo	cated Amour	x:			
	Annual Expense	HEI	HECO	ASB	HEI	HECO	ASB	GL Acd	ICB activity code	KB company code
HEI Only										
Verisign:										
Digital Certificate SSL Kahala Annual Fee	250	100%	0%	0%	250	0	0	Z6-59317-D31-N	NONBIL	NOCHG
Domain Name Annual Fee (various)	200	100%	0%	0%	200	0	0	Z6-59317-D31-N	NONBIL	NOCHG
Comtest:										
Cacheflow Maintenance	4,000	100%	0%	0%	4,000	0	0	Z6-59317-A70-N	NONBIL	NOCHG
SmartFilter Annual Subscription	4,000	100%	0%	0%	4,000	0	0	26-59317-A70-N	NONBIL	NOCHG
NetEnforcer Maintenance	1,400	100%	0%	0%	1,400	0	0	Z6-59317-A70-N	NONBIL	NOCHG
Network Associates Sniffer Maintenance	2,100	100%	0%	0%	2,100	0	0	Z6-59317-A70-N	NONBIL	NOCHG
Tumbleweed MMS (aka WorldSecure):										
MMS Server SW Maint	5,000	100%	0%	0%	5,000	0	0	Z6-59317-A70-N	NONBIL	NOCHG
Delt 2650 Server & MS SQL WIN Maint	1,500	100%	0%	0%	1,500	0	0	Z6-59317-A70-N	NONBIL	NOCHG
V-One VPN Server Maint (50 seat)	1,500	100%	0%	0%	1,500	0	0	Z6-59317-A70-N	NONBIL	NOCHG
NetEnterprise:										
Engineering Support	3,000	100%	0%	0%	3,000	0	0	Z6-59317-A70-N	NONBIL	NOCHG
Email backup Svc	1,200	100%	0%	0%	1,200	0	0	Z6-59317-A70-N	NONBIL	NOCHG
Commercial Data Systems Off-Hour Support	5,500	100%	0%	0%	5,500	0	0	Z6-59317-A70-N	NONBIL	NOCHG
Oceanic RoadRunner Connection	1,200	100%	0%	0%	1,200	0	0	Z6-59317-D31-N	NONBIL	NOCHG
	30,850				30,850	0	0	ā		
HEI+HEIPC+HECO+ASB (1)										
Commercial Data Systems:										
Sun Firewall Hardware/SW Maint 7x24 Gold	11,000	68%	32%	0%	7,480	3,520	0	Z6-59317-D32-Y	INT002	ALLOC
2-Sunfire 280R SN:135CO43A, SN:122CO66B8)	0	68%	32%	0%	0	0	0	Z6-59317-D32-Y	INTO02	ALLOC
Enterprise 250 SN:041H2CA0	0	68%	32%	0%	0	0	0	Z6-59317-D32-Y	INT002	ALLOC
Secure Technologies Hawaii Inc (STHI):										
Firewall Software Maint (Stonesoft, Checkpoint, ISS)	17,400	68%	32%	0%	11,832	5,568	0	Z6-59317-D32-Y	INTO02	ALLOC
Firewall Security Maintenance (include 24 hours T&M)	22,000	68%	32%	0%	14,960	7,040	0	Z8-59317-D32-Y	INT002	ALLOC
	50,400				34,272	16,128	0			
HEI+HECO+ASB										
NetEnterprise:										
2xT1 Internet Circuit & Port Chg (3)	28,800	6.4%	58.6%	35.0%	1,843	16,877	10,080	Z6-59317-D31-Y	INT004	ALLOC
Cisco Router Maintenance (2)	2,000	34%	33%	33%	680	660	660	Z6-59317-A70-Y	INT003	ALLOC
Router Management (2)	3,000	34%	33%	33%	1,020	990	990	Z6-59317-A70-Y	INT003	ALLOC
Sprint:										
2xT1 Internet Circuit & Port Chg (3)	28,800	6.4%	58.6%	35.0%	1,843	16,877	10,080	Z6-59317-D31-Y	INT004	ALLOC
Internet Connection Installation Fee (2)	1,000	34%	33%	33%	340	330	330	Z6-59317-A70-Y	INT003	ALLOC
ARIN ASN Maintenance (2)	100	34%	33%	33%	34	33	33	Z6-59317-A70-Y	INT003	ALLOC
100000000000000000000000000000000000000	63,700				5,760	35,767	22,173			
HEI+HECO					1281 221					
FTP Server - Dell 2650 Hdwr/sw Maint (4)	1,000	10%	90%	0%	100	900	0	Z6-59317-A80-Y	INT005	ALLOC
	1,000				100	900	0	**************************************		
Total Expense	145,950				70,982	52,795	22,173	-		
Capital Depreciation Expense										
HEI Only	19.643	100%	0%	0%	19.643	0	0	Z6-60000-D35-N	NONBIL	NOCHG
HEI+HEIPC+HECO+ASB (1)	40,587	68%	32%	0%	27,599	12,988	0		INTO02	ALLOC
HEI+HECO+ASB (2)	0	34%	33%	33%	0	0	0		INT003	ALLOC
HEI+HECO (4)	347	10%	90%	0%	35	312	3.70	Z6-60000-D38-Y	INT005	ALLOC
Total Depreciation		10/0	33.7	5.70	47,277	13,300	0			HELOU
								-		
TOTAL INTERNET	206,527	-			118,259	66,095	22,173	•		
FrontBridge (Bigfish) Email & Virus filtering service (5)	36,000	10%	90%	0%	3,600	32,400	0	Z6-59317-D32-Y	INTOO 1	ALLOC
TOTAL INTERNET + FRONTBRIDGE	242,527				121,859	98,495	22,173	-		
				100,000				5		

⁽¹⁾ Allocation factors include upgades and higher security requirements to support HEIPC International communications requirements. INTCOL

(2) Fixed allocation based on internet traffic study

(4) Allocation based on FTP account ratio

(5) Allocation based on FrontBridge e-mail traffic study INTCO)

Confidential Information Deleted Pursuant to Protective Order No. 23378

CA-IR-282 DOCKET NO. 2006-0386 PAGE 38 OF 38

Page 38 contains confidential information and is being provided subject to Protective Order No. 23378, dated April 23, 2007.

CA-IR-283

Ref: HECO T-10, pages 22-23 & HECO-1011 (Admin. Exp. Transferred).

Beginning at page 22, HECO T-10 generally discusses the methodology underlying Account 922 to transfer charges in Accounts 920 and 921 to construction, affiliates or third parties. HECO-1011 also refers to an updated KPMG Study. Please provide the following:

- a. Please provide the allocation study update relied upon to develop the various allocation factors applied on HECO-1011, including all workpapers and documentation showing the derivation of the allocation factors. [Note: Since MECO has a rate case pending at the present time, the requested information should also show development of any factors relevant to and used by MECO.]
- b. Please specify whether the updated KMPG study allocation factors are based on 2005 or 2006 operating and/or statistical data.

HECO Response:

- a. See Attachment 1. Note that MECO has its own Administrative Transfer Study.
 Information for MECO's transfer study should be requested in the MECO rate case proceeding.
- b. The updated KPMG study allocation factors are based on 2005 operating and statistical data. The allocation for the Consultant and Assistant Cost Categories are from an analysis period from January 1, 2002 through December 31, 2003.

387,609 6%

Total hours charged to 920 J + K

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Rate
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naruc 921 A&G non-labor	H=G×B =G·H		Construction Non-construction	362.87 1,506.63	237.68 986.82	156.54 649.96	156.64 650.36	51.24 212.76	294.30 1,221.95	1,726.50 42.00	1,773.25 17.00	_	1,420.75 547.25	908.30 663.70	1,370.75 678.50	1,091.75 929.50		1,076.50 1,252.25	-	370.50 1,482.00		_	14	8	-				-	_		-						3		24,066.77 35,527.15
naruc	<u>ග</u>	Total hours. 2005 charges		1,869.50	1,224.50	806.50	807.00	264.00	1,516.25	1,768.50	1,790.25	1,787.00	1,968.00	1,572.00	2,049.25	2,021.25	1,680.50	2,328.75	1,760.50	1,852.50	2,114.50	1,984.00	1,912.50	2,089.67	2,182.25	1,451.50	1,060.50	1,031.50	1,892.00	1,759.75	1,400.00	1,959.00	1,107.00	1,036.50	1,931.00	1,904.00	1,904.00	1,904.00	1,904.00	"
	D=A-C		Non-construction	\$31,854.98	\$25,978.69	\$9,252.14	\$9,266.77	\$4,241.92	\$22,005.36	\$1,114.63	\$438.32	\$33,389.17	\$14,870.61	\$19,127.05	\$18,145.55	\$25,958.60	\$20,722.47	\$31,966.29	\$40,625.11	\$42,112.51	\$46,366.29	\$46,072.87	\$41,339.66	\$28,646.00	\$30,045.42	\$22,940.27	\$18,958.54	\$18,310.40	\$30,597.99	\$30,646.63	\$26,279.52	\$31,334.49	\$15,388.95	\$14,405.61	\$24,859.05	\$35,977.58	\$35,977.58	\$35,977.58	\$35,977.58	\$921,172.18
A&G labor	C=A×B		Construction	\$7,672.23	\$6,256.94	\$2,228.37	\$2,231.89	\$1,021.66	\$5,299.96	\$46,774.27	\$45,703.87	\$18,376.98	\$39,326.65	\$26,176.24	\$36,988.18	\$30,626.28	\$25,967.28	\$27,714.25	\$10,156.28	\$10,528.13	\$11,591.57	\$11,518.22	\$10,334.92	\$14,109.22	\$14,798.49	\$14,294.39	\$11,813.32	\$11,409.45	\$19,066.01	\$19,096.32	\$16,375.11	\$19,524.93	\$9,589.05	\$8,976.32	\$15,490.00	\$22,418.10	\$22,418.10	\$22,418.10	\$22,418.10	F \$640,709.18
naruc 920 A&G labor	æ		% to capital	19.41%	19.41%	19.41%	19.41%	19.41%	19.41%	n/a	п/а	35.50%	n/a	22.78%	n/a	n/a	n/a	n/a	20.00%	20.00%	20.00%	20.00%	20.00%	33.00%	33.00%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	38.39%	
	A	Cost Pool Total:	naruc 920	\$39,527.21	\$32,235.63	\$11,480.51	\$11,498.66	\$5,263.58	\$27,305.32	\$47,888.90	\$46,142.19	\$51,766.15	\$54,197.26	\$45,303.29	\$55,133.73	\$56,584.88	\$46,689.75	\$59,680.54	\$50,781.39	\$52,640.64	\$57,957.86	\$57,591.09	\$51,674.58	\$42,755.22	\$44,843.91	\$37,234.66	\$30,771.86	\$29,719.85	\$49,664.00	\$49,742.95	\$42,654.63	\$50,859.42	\$24,978.00	\$23,381.93	\$40,349.05	\$58,395.68	\$58,395.68	\$58,395.68	\$58,395.68	\$1,561,881.36
			Cost Categories	Invoice Payment Clerk			Accounting Clerk II	Accounting Clerk III	Accounting Clerk III	Associate Plant Accountant	Plant Accounting Clerk	Job Accounting Clerk	Property Accountant	Lead Functional Administrator - Project Control	Land Agent	Land Agent	Land Agent	Land Agent	Consultant	Consultant	Consultant	Consultant	Consultant	Assistant	Assistant	Sr Buyer								2000				Contract Administrator	act Administrator	Total
				PAD	PAD	PAD	PAD	PAD	PAD	PAT	PAT	PAT	PAT	PAA	PNL	PN	PN	PNF	PFD	PFD	PFD	PFD	PFD	PFI	PFI	PVP	ΔΛ	PVP PVP	PVP i	7 6	7	PVP	PVP							

PAD % to Capital based on number of invoices

Sum of CountOfTRANSACTION_NO		
Ind	Total	
BC	11	
BD	191	
BE	2994	
BI	479	
BN	74	
ВО	42	
BP	59	
BR	7	
BT	220	
NC	16732	
ND	255	
NE	42844	
NI	16243	Α
NN	410	
NP	303	
NR	1059	
NS	138	
(blank)	1612	
Grand Total	83673	В

A + B 19.41%

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PAT Labor hours other than Job Accounting Clerk

	Grand Total	143.50	4,839.00	29.00	220.75	81.50	76.00	107 00	20.101
	Associate Property Accountant Gra		1,726.50				42.00		
TO THE STATE OF TH	Property Accountant	126.50	1,339.25	59.00	220.75	81.50	34.00	107.00	
EMP_LAST_NAME	Plant Accounting Clerk	17.00	1,773.25						
HOURS_L	WORK ORDER L		FI000494 capital	FI000550 non-capital	CR000395 non-capital	F1000779 capital	F1000515 non-capital	F1000539 non-capital	
OFNO OF	NARUC	920		And -					
Sum of SumOfNO OF HOURS	GROUP	G30							

PAT Labor dollars other than Job Accounting Clerk

_					- 40		-		
	Grand Total	3,904.34	129,481.46	1,652.42	5,931.77	2,323.33	2,012.39	2,922.64	148,228.35
	Associate Property Accountant Grand Total		46,774.27				1,114.63		47,888.90
	Property Accountant	3,466.02	37,003.32	1,652.42	5,931.77	2,323.33	897.76	2,922.64	54,197.26
EMP_LAST_NAME	Plant Accounting Clerk Property Accountant	438.32	45,703.87						46,142.19
MOUNT	WORK ORDER L		F1000494 capital	FI000550 non-capital	CR000395 non-capital	FI000779 capital	F1000515 non-capital	F1000539 non-capital	
Sum of SumOfTRAN_AMOUNT	NARUC	920	_						
Sum of Sun	GROUP	G30							Grand Total

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PAT Job Accounting Clerk % to capital

		Total hours		
		per month	Construction	Non-Construction
Intercompany Billings	non-construction	40	0	40
OCARS transfer	non-construction	4	0	4
Error corrections	3/4 construction	8	6	2
Transfer of charges	48.66% construction	40	19.464	20.536
Journal entries	35% construction	4	1.4	2.6
PowerPlant (post workorders, file) Log and enter in Ellipse (stop AFUDC, final	construction	2	2	0
close, inactivating projects, date in svc, etc.)	construction	8	8	0
Requests for project & workorder information	construction	20	20	0
Misc	non-construction	34	0	34
Total		160	56.864	103.136
			35.5%	64.5%

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LFA Project Control % to Capital based on number of capital projects to total projects

OFPROJECT_NO	E Ind CountO	DSTRCT_COL
2	**	HECO
6	BD	HECO
89	BE	HECO
8	Bl	HECO
4	BN	HECO
2	NC	HECO
14	ND	HECO
185	NE	HECO
453	NI	HECO
21	NR	HECO
784	i i	Grand Total

A + B 57.78%

PNL Capital Labor Dollars Work Orders: LA000008 and LA000015

RAN A	Sum of SumOfTRAN_AMOUNT	position				
۸	WORK ORDER L	LAND AGENT 1	LAND AGENT 2	LAND AGENT 3	LAND AGENT 4	Grand Total
_		6.74			12.79	19.53
	R000135	720.04	4,461.78	1,441.45	1,872.11	8,495.38
_	_A000002	1,236.62		4,424.13	14.97	5,675.72
_	_A000003	94.22	57.69	93.38	70.45	315.74
	LA000004	938.91	427.37			1,366.28
_	LA000006	765.78	943.38	563.27	1,667.44	3,939.87
_	LA000007	2,514.04	1,491.50	2,761.63	3,080.00	9,847.17
	LA000008	4,383.52	2,189.98		2,404.90	8,978.40
	LA000009	8,670.04	8,517.59	2,947.09	23,424.08	43,558.80
	LA000010	391.00	1,867.01	1,438.51	183.27	3,879.79
	LA000011	576.39	370.71	6,755.00	913.55	8,615.65
	LA000012				251.55	251.55
	LA000014	1,985.41	7,821.57		177.87	9,984.85
	LA000015	32,604.66	28,436.30	25,967.28	25,309.35	112,317.59
-	LA000023				125.66	125.66
	LA000127				172.55	172.55
	LA000248	246.36	A STATE OF THE STA	298.01		544.37
		55,133.73	56,584.88	46,689.75	59,680.54	218,088.90

PNL Capital Labor Hours Work Orders: LA000008 and LA000015

Sum of SumOfNO OF HOURS L	HOURS_L	position				
NARUC	WORK_ORDER_L	LAND AGENT 1	LAND AGENT 2	LAND AGENT 3	LAND AGENT 1 LAND AGENT 2 LAND AGENT 3 LAND AGENT 4 Grand Total	Grand Total
920		0.25	TANK TO THE PARTY OF THE PARTY		0:50	0.75
	IR000135	27.00	164.50	54.00	77.75	323.25
	LA000002	45.75		157.00	0.50	203.25
	LA000003	3.75	2.00	3.50	2.75	12.00
	LA000004	36.25	15.25			51.50
	LA000006	29.25	35.25	20.25	70.25	155.00
	LA000007	93.25	53.25	99.75	119.50	365.75
	LA000008	161.75	78.25		94.00	334.00
	LA000009	324.00	302.25	106.25	908.50	1,641.00
	LA000010	14.25	66.25	52.25	7.25	140.00
	LA000011	21.75	14.00	246.00	37.25	319.00
	LA000012				9.75	9.75
	LA000014	74.00	276.75		7.00	357.75
	LA000015	1,209.00	1,013.50	931.00	982.50	4,136.00
	LA000023	ž.			4.75	4.75
	LA000127				6.50	6.50
	LA000248	9.00		10.50		19.50
		2,049.25	2,021.25	1,680.50	2,328.75	8,079.75

PFD and PFI % to capital

	alysis Period = January 1, 2002 through December 31, 2003 ta taken from "Productive Time 2002 2003" tab in this file	2 yr A	verage	
Co a b c d	nsultants (five) Total Hours Spent on Construction Recruitment Total Hours Spent on NonConstruction Recruitment Total Hours Spent on Recruitment % of time spent on Construction Recruitment (a/c)	431.75 1742 2173.75 20%		
e f g	Monthly hours spent on Construction Recruitment (a/12) Monthly productive hours per Consultant* *time spent on all activities; does not include sick, vacation, holidays, etc. Equivalent # of positions tied to Construction Recruitment (e/f)		3 14 0.2425561	
As g h I	sistants (two) Total Hours Spent on Construction Recruitment Total Hours Spent on NonConstruction Recruitment Total Hours Spent on Recruitment % of time spent on Construction Recruitment	794.4998 1627 2421.62455 33%		
j k I	Monthly hours spent on Construction Recruitment (g/12) Monthly productive hours per Assistant* *time spent on all activities; does not include sick, vacation, holidays, etc. Equivalent # of positions tied to Construction Recruitment		6 15 0.4	
Fo m	rmula for determining productive hours Annual hours available per employee	Consultant 2080	Assistant 208	0
n o p	Less: Holidays Ave. vacation Sick estimate	120 140 40 300	12 10 4 26	0
r s	Annual productive hours per employee (m-q) Monthly productive hours per employee (r/12)	1780 148	182 15	

PVP % to capital based on number of capital purchase requisitions

Count of ALLOC_PC		
Ind	Total	
BD	12	
BE	333	
BI	1	
BT	197	
NC	302	
ND	18	
NE	2105	
NI	2043	Α
NN	11	
NP	49	
NR	190	
NS	54	
(blank)	7	
Grand Total	5322	В

A + B 38.39%

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5/14/2007		Productive Hours to Acct 920	4:50PM
VP	FY05		
Corp Exc	116,254.64		
Corp Rel	12,698.58		
Cust Sol	14,235.92		
En Del	24,971.75		
EnSol	12,049.59		
FinVP	107,990.47		
GenCounsel	27,204.17		
Govt&Comm	23,000.50		
Operations	4,008.00		
Pres	23,935.00		
PubAffairs	8,565.50		
Pwr Sup	12,176.50		
Spec Proj	518.00		
	387,608.62		

CA-IR-284

Ref: HECO T-10, pages 42-45 (Standard Labor Rates).

The referenced testimony generally discusses the use of standard labor rates by HECO, using 2005 information adjusted to reflect overtime and wage rate changes consistent with the 2007 test year forecast. Please provide the following:

- a. Please provide a listing of the standard labor rates, by labor class, input into Pillar for purposes of preparing the 2007 budget.
- b. Are the standard labor rates, by labor class, used by the Company in preparing the 2007 test year forecast different from the standard labor rates input into Pillar for preparing the 2007 budget?
 - 1. If so, please provide a listing of the standard labor rates, by labor class, input into Pillar for purposes of preparing the 2007 test year forecast.
 - 2. Please identify and describe the various changes between the standard labor rates used for 2007 general budgeting purposes and 2007 rate case test year purposes.
- c. Please provide a listing of the standard labor rates, by labor class, actually used by HECO in calendar 2005.
- d. Please confirm that the standard labor rates used for 2007 test year purposes were based on labor hours and payroll dollars for calendar year 2005, which then were adjusted to reflect changes in wage rates and overtime levels through 2007. If this cannot be confirmed, please explain.
- e. Referring to subpart d. above, please provide a copy of the source documentation supporting the 2005 labor hours and payroll dollars, by labor class.

HECO Response:

- a. See Attachment 1 to this response.
- b. See the response to 2.
 - 1. See Attachment 2 to this response.
 - 2. As explained in HECO T-1 (pages 27-28) and HECO T-10 (pages 39-41), the O&M expenses for this 2007 test year rate case are based on the Company's 2007 O&M expense budget with the adjustments identified in the testimonies and

exhibits. Thus, the standard labor rates used for the 2007 O&M expense budget were also used to develop the 2007 test year estimates. As part of the budgeting process, adjustments were made to the 2007 O&M expense budget prepared earlier in 2006, by manually estimating the impact of such changes, including O&M adjustments identified in HECO's direct testimony, impacts of organizational changes, and an increase to the estimate for Ellipse Migration expenses (see HECO's response to CA-IR-35, part a). In addition, although not required, project managers were allowed to make changes to their capital project estimates (including related O&M project expenses). The resulting operating budget was presented to HEI and the Boards of Directors of HECO and HEI in December 2006. At this point in time, the standard labor rates, by labor class, used by the Company to prepare its 2007 test year estimates based on the 2007 expense budget were the same as the standard labor rates used to input into the budget system to prepare the 2007 budget.

Subsequent to the presentation of the budget to the HECO and HEI Boards, the Company recycled the budget. The Company recalculated the standard labor rates based on the labor adjustments made to the budget, as described above. Changes that affected the standard labor rates were due primarily to the adjustments from HECO's 2007 test year direct testimony (see HECO T-7, page 5, lines 15-19, HECO T-8, page 10, lines 1-7 and HECO-1201, line 16) and changes to the project estimates as explained above. As these adjustments primarily increased merit labor hours, there were small reductions in the standard labor rates ranging from 0.11% to 0.96%.

After all the adjustments were entered to the budget system, including the impact of revised standard labor rates, an O&M expense adjustment of \$368,000 was added so that the final version of the 2007 operating budget would reflect the level of O&M expenses presented to HEI and the Board of Directors of the Company and HEI. See Attachment 1 to response to CA-IR-320.

Although the final version of the 2007 operating budget reflects lower standard labor rates than those used for the O&M expense budget prepared earlier in 2006 (which was the starting point for the 2007 test year estimates and for the budget presented to HEI and the Boards of Directors), the O&M expenses in the final version of the 2007 operating budget are not lower than those in the budget presented to HEI and the Boards of Directors, as a result of the adjustment described above. Therefore, no O&M expense reduction is contemplated for the higher standard labor rates used in the rate case budget.

- c. See Attachment 3 to this response.
- d. Yes. Please also see response to CA-IR-285.
- e. See Attachment 4 to this response.

		đ.		
On-Cost	Labor			Budget
Category	Class	Labor Classes (description)	STAT	2007
GE	BUOC	BU - Off & Clerical	BU	24.20
ED	BUOCB	BU - Off & Clerical (Bs)	BU	24.36
ED	BUOCED	BU - Off & Clerical (ED)	BU	22.97
PS CE	BUOCI	BU - Off & Clerical (Is) BU - Off & Clerical (WA&WP)	BU BU	22.55
PS	BUOCY	BU - Off & Clerical (WAGWF)	BU	21.36
GE	BUTC	BU - Trade & Crft	BU	28.85
ED	BUTCB	BU - Trade & Crft (Bs)	BU	28.85
ED	BUTCED	BU - Trade & Crft (ED)	BU	35.32
PS	BUTCI	BU - Trade & Crft (Is)	BU	34.83
CE	BUTCW	BU - Trade & Crft (WA&WP)	BU	34.83
PS	BUTCY	BU - Trade & Crft (YA,YC,YF,YG,YJ,YM)	BU	34.83
ED ED	TNDDFT	T&D Drafting Structural Drafting	BU BU	34.52
ED	SUBDET	Substation Drafting	BU	37.52
ED	SURVBU		BU	28.50
ED	TECDET	Tech Services Drafting	BU	31.52
ED	OHCREW	Overhead Crew	BU	36.67
ED	PTM	Switching (work)	BU	39.50
ED		Underground Crew	BU	42.16
PS	TVLBLR		BU	38.74
PS PS	TVLELC	Electrical Maint TvI	BU	38.56
PS PS	TVLTCH	Machinist Maint Tvl Technical Maint Tvl	BU BU	39.60 41.36
PS	WPPMNT		BU	39.90
PS		Kah Plant Maint	BU	38.83
PS	HPPMNT		BU	36.09
GE	WHMAID	Water/Haz Mat Aide	BU	0.00
ED	COMELE		BU	36.01
ED	AND STREET, ST	Comm Tech.	BU	36.01
ED	OPEDIS	Dispatch	BU	41.29
ED ED	ENGMAP INSCRW	Mapping - Tech Instrument - Tech	BU BU	26.07 35.88
ED	RELCRW		BU	37.38
ED		Substation Crew	BU	35.15
ED		Construction - Crew	BU	41.37
GE	JPCORD	Joint Pole Coordinator	BU	29.71
GE	A CONTRACTOR OF TOUR	Technical Researcher	BU	32.60
CE	CUPLNR	Customer Planner	BU	32.29
CE	JEPLNR JRPLNR	Design Planner Junior Customer Planner	BU BU	37.03 26.34
GE	MTELEC	Meter Electricians	BU	29.42
PS	PPDRAF	PP Drafting	BU	31.42
CE	JRDRFT	Junior Drafter	BU	20.87
GE	E	Enabler		51.24
ED	E-B	Enabler - (Bs)		50.24
ED	E-ED	Enabler - (ED)	3	57.31
PS	E-I	Enabler - (is)		54.29
CE PS	E-W E-Y	Enabler - WA & WP Enabler - (YA,YF,YG,YJ,YM)		49.29 66.38
GE	EXEC	Executives - Pres/VPs		109.50
GE	Formula	Facilitator		47.99
ED	F-B	Fac - (Bs)		47.99
ED	F-ED	Fac - (ED)		47.99
PS		Fac - (Is)		47.99
CE		Facilitator - WA & WP		47.99
PS GE		Faciltator - (YA,YF,YG,YJ,YM) Facilitator - Supv		47.99
ED		Fac-Sup - (Bs)		43.41
ED		Fac-Sup - (ED)		50.18
PS		Fac-Sup - (Is)		46.35
CE	FS-W	Facilitator - Supv WA & WP		46.99
PS		Fac-Sup - (YA,YF,YG,YJ,YM)		41.19
GE		Implementor		23.22
ED ED		Implementor - (Bs) Implementor - (ED)	1	22.02 29.71
PS		Implementor - (ED)		22.50
		Implementor - WA & WP		19.67
- AT-171		property of the second section of the second		210

NSSAMOON		- Input in	
On-Cost	Labor		
Category	APPROXIMATION OF PROPERTY	Labor Classes (description) STAT	Budget 2007
PS	I-Y	implementor - (YA,YF,YG,YJ,YM)	21.16
GE	TC	Teacher/Coach	32.48
ED	TC-B	Teacher/Coach - (Bs)	32.48
ED	TC-ED	Teacher/Coach - (ED)	31.44
PS CF	TC-I	Teacher/Coach - (Is)	35.66
CE PS	TC-W TC-Y	Teacher/Coach - WA & WP Teacher/Coach - (YA,YF,YG,YJ,YM)	29.79
GE	TCS	Teacher/Coach - Supv	32.97
ED	TCS-B	Teacher/Coach - Supv - (Bs)	34.08
ED	TCS-ED	Teacher/Coach - Supv - (ED)	36.21
PS	TCS-I	Teacher/Coach - Supv - (Is)	40.92
CE	TCS-W	Teacher/Coach - Supv - WA & WP	25.66
PS	TCS-Y	Teacher/Coach - Supv -(YA,YF,YG,YJ,YM)	35.37
ED	TNDENG	T&D Engineering	33.39
ED	TRNPLN	Transmission Planning	39.12
ED ED	PRJMGT	Project Management Project Support	39.28
ED	DISPLN	Distribution Planning	34.56
ED	STRENG	Civil Structural Engineering	35.47
ED	PROTEC	Protection	32.96
ED	SURVEY	Surveyor	34.99
ED	SSENG	Substation Engineering	37.08
ED	TECENG	Tech Services Engineering	40.09
PS		Power Plant Engineer	32.63
PS	PPPLAN	Project Coordinator	33.84
PS	PPSPVR		41.17
PS GE	TVLSPV AIRSCI	Supv - Tvl Maint Air/Noise Scientist	41.98
GE	AIRSPE	Air/Noise Specialist	38.60
GE	CHEMST		30.60
GE	WHMSCI		37.13
	POLICE	Police work	29.62
ED	TCENGR	Telecomm Engr	34.20
ED		Sr Telecomm Engr	43.66
ED		Comm Engr	39.40
ED ED	OPESPT	Comm Supv	38.48
ED	OPESTF	Dispatch - Supt Dispatch - Staff	43.90
ED	OPESUP	Dispatch - Supv	41.72
ED		EMS - Supv	40.05
ED	ENGSTF	EMS - Staff	32.35
ED		Mapping - Supv	34.43
ED		Instrument - Engr	38.92
ED	INSSUP	Instrument - Supv	40.54
ED ED	RELSUP	Relay - Engr Relay - Supv	42.41 38.24
ED	TECSPT	Tech - Supt	53.50
ED	SUBENG	Substation - Engr	38.43
ED	SUBPLN	Substation - Plnr	36.38
ED	SUBSUP	Substation - Supv	36.80
ED	CONSUP	Construction - Supv	39.55
GE	EXEC2	Executives - Other	57.81
CE	CUENGR	Customer Engineer	38.43
CE GE	PDSUPV	Planning Supv Meter Engineers	33.47
GE	MTSUPV	Meter Engineers Meter Supv.	38.94
GE	GENPLN	Generation Plng Engineer	39.49
PS	PPELEC	PP Electrical Engineer	31.96
PS	PPPROJ	PP Project Management	43.70
PS	PPMECH	PP Mechanical Engineer	35.05
PS	TECHSV	PP Technical Services	37.07
GE	IRP	IRP Engineer	37.70
GS	SUMMER	Summer Hire	12.00

2007 Standard Labor Rates Test Year Input Into Pillar

CA-IR-284 DOCKET NO. 2006-0386 ATTACHMENT 2 PAGE 1 OF 2

On-Cost	Labor			2007 Test
Category		Labor Class Desc	STAT	Year
GE	BUOC	BU - Off & Clerical	BU	24.23
ED	BUOCB	BU - Off & Clerical (Bs)	BU	24.39
ED	BUCCED	BU - Off & Clerical (ED)	BU	22.99
PS	BUOCI	BU - Off & Clerical (Is)	BU	22.57
CE	BUOCW	BU - Off & Clerical (WA&WP)	BU	26.42
PS	BUOCY	BU - Off & Clerical YA,YC,YF,YG,YJ,YM	BU	21.38
GE ED	BUTCB	BU - Trade & Crft BU - Trade & Crft (Bs)	BU BU	28.88 28.88
ED	BUTCED	BU - Trade & Crit (ED)	BU	35.36
PS	BUTCI	BU - Trade & Crft (Is)	BU	34.87
CE	BUTCW	BU - Trade & Crft (WA&WP)	BU	34.87
PS	BUTCY	BU - Trade & Crft (YA,YC,YF,YG,YJ,YM)	BU	34.87
ED	TNDDFT	T&D Drafting	BU	34.56
ED	STRDFT	Structural Drafting	BU	31.97
ED	SUBDFT	Substation Drafting	BU	37.56
ED	SURVBU		BU	28.53
ED	TECDFT	Tech Services Drafting	BU	31.55
ED	12 TO A CONTROL OF THE REAL PROPERTY.	Overhead Crew	BU	36.71
ED	PTM	Switching (work)	BU	39.54 42.21
ED		Underground Crew Boiler Maint Tvl	BU BU	38.78
PS PS	TVLBLR	Electrical Maint Tvl	BU	38.60
PS	TVLMCH	Machinist Maint TVI	BU	39.65
PS	TVLTCH	Technical Maint Tvl	BU	41.41
PS		Waiau Plant Maint	BU	39.94
PS	KPPMNT	Kah Plant Maint	BU	38.88
PS	HPPMNT	Honolulu Plant Maint	BU	36.13
GE	WHMAID	Water/Haz Mat Aide	BU	0.00
ED		Comm Electrician	BU	36.05
ED		Comm Tech.	BU	36.05
ED	OPEDIS	Dispatch	BU	41.33
ED	ENGMAP		BU	26.10
ED ED	5.00 Figure 7.00 Figure 7.00 (iii)	Instrument - Tech	BU BU	35.92 37.42
ED		Relay - Tech/Elec Substation Crew	BU	35.19
ED	PROPERTY AND PROPE	Construction - Crew	BU	41.42
ĞE	JPCORD	Joint Pole Coordinator	BU	29.75
GE	RESHER	Technical Researcher	BU	32.64
CE	CUPLNR	Customer Planner	BU	32.32
CE	DEPLNR	Design Planner	BU	37.07
CE	JRPLNR	Junior Customer Planner	BU	26.37
GE	MTELEC	Meter Electricians	BU	29.45
PS	PPDRAF	PP Drafting	BU	31.46
CE	JRDRFT	Junior Drafter	BU	20.89 51.24
GE ED	E E-B	Enabler Enabler - (Bs)		50.24
ED	E-ED	Enabler - (ED)		57.31
PS	E-I	Enabler - (Is)		54.29
CE	E-W	Enabler - WA & WP		49.29
PS	E-Y	Enabler - (YA,YF,YG,YJ,YM)		66.38
GE	EXEC	Executives - Pres/VPs		109.50
GE	F	Facilitator		48.45
ED	F-8	Fac - (Bs)		48.45
ED	F-ED	Fac - (ED)		48.45
PS	F-I	Fac - (Is)		48.45
CE PS	F-W F-Y	Facilitator - WA & WP Faciltator - (YA,YF,YG,YJ,YM)		48.45 48.45
	FS	Facilitator - (YA, YF, YG, YJ, YM) Facilitator - Supv		41.59
	FS-B	Fac-Sup - (Bs)		43.82
	FS-ED	Fac-Sup - (ED)		50.66
	FS-I	Fac-Sup - (Is)		46.79
		Facilitator - Supv WA & WP		47.44
PS		Fac-Sup - (YA,YF,YG,YJ,YM)		41.59
1000		Implementor		23.22
		Implementor - (Bs)		22.02
ED	I-ED	Implementor - (ED)		29.71

2007 Standard Labor Rates Test Year Input Into Pillar

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PS	1-1	Implementor - (Is)	22.50
CE	I-W	Implementor - WA & WP	19.67
PS	I-Y	Implementor - (YA,YF,YG,YJ,YM)	21.16
GE	TC	Teacher/Coach	32.79
ED	TC-B	Teacher/Coach - (Bs)	32.79
ED	TC-ED	Teacher/Coach - (ED)	31.74
PS	TC-I	Teacher/Coach - (Is)	36.00
CE	TC-W	Teacher/Coach - WA & WP	30.07
PS	TC-Y	Teacher/Coach - (YA,YF,YG,YJ,YM)	32.79
GE	TCS	Teacher/Coach - Supv	33.28
ED	TCS-B	Teacher/Coach - Supv - (Bs)	34.40
ED	TCS-ED	Teacher/Coach - Supv - (ED)	36.55
PS	TCS-I	Teacher/Coach - Supv - (Is)	41.32
CE	TCS-W	Teacher/Coach - Supv - WA & WP	25.91
P\$	TCS-Y	Teacher/Coach - Supv -(YA,YF,YG,YJ,YM)	35.70
ED	TNDENG	T&D Engineering	33.70
ED	TRNPLN	Transmission Planning	39.48
ED	PRJMGT	1 1 1 1 1 1 1 1 1	39.65
ED	PRISUP	Project Support	34.04
ED	DISPLN	Distribution Planning	34.90
ED	STRENG		35.80
ED	PROTEC		33.27
ED	SURVEY	Surveyor	35.33
ED	SSENG	Substation Engineering	37.41
ED	TECENG	Tech Services Engineering	40.46
PS	PPENGR		32.94
PS	PPPLAN	Project Coordinator	34.17 41.57
PS	PPSPVR		42.38
PS GE	TVLSPV	Supv - Tvl Maint Air/Noise Scientist	38.97
GE	AIRSCI	Air/Noise Specialist	38.97
GE	CHEMST		30.89
GE	WHMSCI		37.48
OL	POLICE	Police work	29.62
ED	TCENGR	Telecomm Engr	34.52
ED	TCSENG	Sr Telecomm Engr	44.08
ED	A CONTRACT OF THE PARTY OF THE	Comm Engr	39.77
ED	TO MAKE THE PARTY OF THE PARTY	Comm Supv	38.85
ED	OPESPT	Dispatch - Supt	47.24
ED	OPESTF	Dispatch - Staff	44.32
ED	OPESUP	Dispatch - Supv	42.12
ED	ENGSRE	EMS - Supv	40.43
ED	ENGSTF	EMS - Staff	32.65
ED	ENGSUP	Mapping - Supv	34.77
ED	INSENG	Instrument - Engr	39.30
ED	INSSUP	Instrument - Supv	40.92
ED	RELENG	Relay - Engr	42.82
ED	RELSUP	Relay - Supv	38.61
ED	TECSPT	Tech - Supt	54.00
ED	SUBENG		38.79
ED	SUBPLN	Substation - Plnr	36.73
ED	SUBSUP		37.15
ED	CONSUP		39.92
GE	EXEC2	Executives - Other	57.81
CE	CUENGR	Customer Engineer	38.79 33.78
CE	PDSUPV	Planning Supv	38.60
GE GE	MTENGR	Meter Engineers	39.32
GE	MTSUPV	Meter Supv. Generation Plng Engineer	39.87
PS PS	PPELEC	PP Electrical Engineer	32.26
PS PS	PPPROJ	PP Project Management	44.12
PS	PPMECH	PP Mechanical Engineer	35.38
PS	TECHSV	PP Technical Services	37.43
GE	IRP	IRP Engineer	38.05
GS		Summer Hire	12.00
57.0	THE REPORT OF THE PARTY OF THE		

On Cost				
On-Cost Category	190 (21 300 900)	Labor Classes (description)	STAT	2005
GE	BUOC	BU - Off & Clerical	BU	23.07
ED	BUOCB	BU - Off & Clerical (Bs)	BU	22.28
ED	BUOCED	BU - Off & Clerical (ED)	BU	21.62
PS	BUOCI	BU - Off & Clerical (Is)	BU	21.75
CE	BUOCW	BU - Off & Clerical (WA&WP)	BU	24.01
PS	BUOCY	BU - Off & Clerical YA,YC,YF,YG,YJ,YM	BU	19.37
GE	BUTC	BU - Trade & Crft	BU	26.39
ED	BUTCB	BU - Trade & Crft (Bs)	BU	26.39
ED	BUTCED	BU - Trade & Crft (ED) BU - Trade & Crft (Is)	BU BU	31.51
PS CE	BUTCH	BU - Trade & Crit (IS) BU - Trade & Crit (WA&WP)	BU	33.05 26.39
PS	BUTCY	BU - Trade & Crft (YA,YC,YF,YG,YJ,YM)		26.39
ED	TNDDFT	T&D Drafting	BU	32.47
ED	STRDFT	Structural Drafting	BU	31.48
ED	SUBDET	Substation Drafting	BU	33.07
ED	SURVBU	Surveyor - BU	BU	26.16
ED	TECDFT	Tech Services Drafting	BU	29.51
ED		Overhead Crew	BU	36.08
ED	PTM	Switching (work)	BU	36.41
ED	CONTRACTOR STATE OF THE STATE O	Underground Crew	BU	37.61
PS	TVLBLR	Boiler Maint Tvl	BU	34.04
PS PS	TVLELC	Electrical Maint TvI Machinist Maint TvI	BU BU	37.88 36.08
PS	TVLTCH	Technical Maint TvI	BU	36.05
PS		Waiau Plant Maint	BU	35.07
PS	KPPMNT	Kah Plant Maint	BU	34.95
PS	HPPMNT	Honolulu Plant Maint	BU	33.90
GE	CIAMHW	Water/Haz Mat Aide	BU	31.10
ED	COMELE	Comm Electrician	BU	31.33
ED	COMTEC	Comm Tech.	BU	31.33
ED	OPEDIS	Dispatch	BU	34.96
ED	ENGMAP		BU	27.09
ED	INSCRW	Instrument - Tech	BU	32.19
ED ED		Relay - Tech/Elec Substation Crew	BU BU	32.54 33.67
ED		Construction - Crew	BU	35.86
GE	JPCORD	Joint Pole Coordinator	BU	28.54
GE		Technical Researcher	BU	26.68
CE		Customer Planner	BU	29.24
CE	DEPLNR	Design Planner	BŲ	33.38
CE	JRPLNR	Junior Customer Planner	BU	25.59
GE	MTELEC	Meter Electricians	BU	30.63
PS	PPDRAF	PP Drafting	BU	31.66
GE	E	Enabler (Re)		52.60
ED ED	E-B E-ED	Enabler - (Bs) Enabler - (ED)		49.82 55.09
PS	E-1	Enabler - (Is)		50.75
CE	E-W	Enabler - WA & WP		54.59
PS	E-Y	Enabler - (YA,YF,YG,YJ,YM)		64.60
GE	EXEC	Executives - Pres/VPs		102.61
GE	F	Facilitator		44.85
ED	F-B	Fac - (Bs)		44.85
ED	F-ED	Fac - (ED)		44.85
PS	F-I	Fac - (Is)		44.85
CE PS	F-W	Facilitator - WA & WP		44.85
GE	F-Y FS	Faciltator - (YA,YF,YG,YJ,YM) Facilitator - Supv		44.85 39.81
ED	FS-B	Fac-Sup - (Bs)		46.27
ED	FS-ED	Fac-Sup - (ED)		38.92
PS	FS-I	Fac-Sup - (Is)		45.63
CE	FS-W	Facilitator - Supv WA & WP		41.10
PS	FS-Y	Fac-Sup - (YA,YF,YG,YJ,YM)		39.81
GE		Implementor		23.72
ED	I-B	Implementor - (Bs)		20.39
ED	I-ED	Implementor - (ED)		29.18
PS CE	I-I I-W	Implementor - (Is) Implementor - WA & WP		23.67
OL	12 (4) (OUZ) S	imponentia WA WI		22.10

	Labor		100000
Category		Labor Classes (description) STAT	2005
PS	I-Y	Implementor - (YA,YF,YG,YJ,YM)	19.38
GE ED	TC	Teacher/Coach (Bs)	30.67
ED	TC-B TC-ED	Teacher/Coach - (Bs) Teacher/Coach - (ED)	29.55 29.92
PS	TC-I	Teacher/Coach - (Is)	32.95
CE	TC-W	Teacher/Coach - WA & WP	31.56
PS	TC-Y	Teacher/Coach - (YA,YF,YG,YJ,YM)	30.67
GE	TCS	Teacher/Coach - Supv	30.13
ED	TCS-B	Teacher/Coach - Supv - (Bs)	30.83
ED	TCS-ED	Teacher/Coach - Supv - (ED)	31.54
PS CE	TCS-I TCS-W	Teacher/Coach - Supv - (Is) Teacher/Coach - Supv - WA & WP	36.14 28.54
PS	TCS-Y	Teacher/Coach - Supv - (YA,YF,YG,YJ,YM)	32.93
ED	TNDENG	T&D Engineering	32.92
ED	TRNPLN	Transmission Planning	34.59
ED	PRJMGT	Project Management	31.15
ED	PRJSUP	Project Support	29.28
ED	DISPLN	Distribution Planning	0.00
ED	STRENG	Civil Structural Engineering	33.47
ED ED	PROTEC	Protection	33.69
ED	SSENG	Surveyor Substation Engineering	29.75 33.98
ED	TECENG	Tech Services Engineering	39.46
PS	PPENGR	Power Plant Engineer	30.80
PS	PPPLAN	Project Coordinator	32.18
PS	PPSPVR	Supv - Plant Maint	37.62
PS	TVLSPV	Supv - Tvl Maint	37.91
GE	AIRSCI	Air/Noise Scientist	36.00
GE GE	CHEMST	Air/Noise Specialist Chemist	25.59 29.94
GE	WHMSCI	Water/Haz Mat Scientist	32.39
02	POLICE	Police work	23.72
ED		Telecomm Engr	33.28
ED	TCSENG	Sr Telecomm Engr	38.72
ED		Comm Engr	35.18
ED		Comm Supv	35.54
ED ED	OPESTF	Dispatch - Supt Dispatch - Staff	41.17
ED	OPESUP	Dispatch - Supv	38.56
ED	ENGSRE	EMS - Supv	38.48
ED	ENGSTF	EMS - Staff	32.02
ED	ENGSUP	Mapping - Supv	26.05
ED	INSENG	Instrument - Engr	37.21
ED	INSSUP	Instrument - Supv	36.04
ED ED	RELSUP	Relay - Engr	37.76
ED	TECSPT	Relay - Supv Tech - Supt	35.12 47.54
ED	SUBENG	Substation - Engr	34.58
ED	SUBPLN	Substation - Plnr	32.60
ED	SUBSUP	Substation - Supv	34.27
ED	CONSUP	Construction - Supv	38.98
	EXEC2	Executives - Other	60.64
	CUENGR	Customer Engineer	34.85
	PDSUPV MTENGR	Planning Supv Meter Engineers	37.01
	MTSUPV	Meter Engineers Meter Supv.	34.23
	GENPLN	Generation Plng Engineer	35.42
	PPELEC	PP Electrical Engineer	30.10
PS	PPPROJ	PP Project Management	39.38
PS	PPMECH	PP Mechanical Engineer	36.19
	TECHSV	PP Technical Services	36.79
GE	IRP	IRP Engineer	37.64

Actual 2005 Labor Hours and Dollars by Labor class

DSTRCT_CODE	HECO

Data			
LAB COST CL L	Sum of SumOfNO OF HOURS L	Sum of SumOfTRAN_AMOUNT	
AIRSCI	10,568.00	378,997.44	
BUDRFT	64.00	1,513.54	
BUOC	258,296.53	5,931,383.64	
BUOCB	14,299.67	330,499.51	
BUOCED	20,263.75	441,458.61	
BUOCI	9,041.58	193,409.72	
BUOCW	9,238.16	231,351.57	
BUOCY	3,794.50	76,892.80	
BUTC	119,972.16	3,283,309.03	
BUTCED	19,628.75	657,663.14	
BUTCI	247,847.12	8,190,040.78	
CHEMST	11,611.75	330,141.25	
COMELE	12,602.25	430,503.28	
COMENG	2,079.00	76,095.78	
COMSUP	1,925.00	68,826.63	
CONCRW	4,463.50	175,196.15	
CONSUP	1,946.50	71,509.20	
CUDGNR	1,770.50	62,110.96	
CUENGR	7,935.00	283,246.87	
CUPLNR	7,129.41	218,351.16	
DEPLNR	4,707.17	165,355.42	
DISPLN	8,698.50	279,323.87	
E	27,016.33	1,297,894.86	
E-B	1,929.00	90,853.55	
E-ED	3,357.75	180,416.30	
E-I	4,085.00	207,975.74	
ENGMAP	8,958.41	221,540.86	
ENGSRE	2,182.00	81,184.83	
ENGSTF	9,969.17	299,560.71	
ENGSUP	898.75	28,752.48	
E-W	2,061.00	95,243.40	
EXEC	27,235.83	2,721,594.50	
EXEC2	6,988.50	368,728.75	
E-Y	1,784.00	111,031.23	
F	24,967.33	1,113,068.87	
FS	70,921.86	2,714,324.20	
FS-B	9,810.00	395,603.22	
FS-ED	3,452.00	160,932.84	
FS-I	10,602.00	456,497.84	
FS-W	1,966.00	85,815.56	
GENPLN	16,208.50	594,652.25	
HPPMNT	13,911.00	476,293.06	
-	143,445.44	3,093,844.73	
I-B	1,798.50	36,799.82	
I-ED	4,884.50	134,813.07	
-	7,421.75	155,141.05	
INSCRW	12,128.00	412,780.69	
INSENG	4,038.00	146,016.63	

Actual 2005 Labor Hours and Dollars by Labor class

INSSUP	2,155.50	81,182.50
IRP	4,678.50	163,843.77
I-W	1,824.00	33,322.21
I-Y	1,841.00	36,188.35
JPCORD	1,819.00	51,272.96
JRDRFT	1,043.00	20,654.62
JRPLNR	8,520.46	212,904.24
KPPMNT	53,721.75	1,979,123.72
MTELEC	17,796.61	496,773.64
MTENGR	3,288.00	116,796.78
MTSUPV	1,880.00	68,020.71
OHCREW	245,933.74	8,556,958.73
OPEDIS	21,462.00	840,624.54
OPESPT	2,083.50	90,588.78
OPESTF	8,575.50	349,734.67
OPESUP	15,370.33	595,692.02
PDSUPV	4,002.83	124,437.57
POLICE	7,059.72	209,091.00
PPDRAF	4,131.50	123,172.12
PPELEC	20,955.00	622,086.96
PPENGR	20,482.75	620,770.43
РРМЕСН	21,822.33	710,552.26
PPPLAN	6,470.25	203,445.08
PPPROJ	8,939.50	362,986.41
PPSPVR	11,197.50	428,318.47
PRJMGT	5,578.50	203,566.88
PRJSUP	3,574.00	111,947.89
PROTEC	7,284.00	223,045.41
РТМ	44,448.12	1,665,422.45
RELCRW	12,269.50	435,026.07
RELENG	3,971.00	156,464.80
RELSUP	1,693.00	60,149.26
RESHER	2,179.00	67,391.35
SSENG	14,126.00	486,313.25
STRDFT	4,247.50	128,695.24
STRENG	13,708.00	451,678.12
SUBCRW	62,383.67	2,080,629.12
SUBDFT	2,248.00	79,997.94
SUBENG	1,908.00	68,113.38
SUBPLN	1,933.75	65,354.83
SUBSUP	4,767.00	162,973.95
SUMMER	12,259.00	145,405.98
SURVBU	3,661.75	99,011.45
SURVEY	7,361.50	239,352.42
TC	426,939.34	12,879,885.85
TC-ED	27,533.25	804,279.27
TCENGR	7,456.00	236,872.00
TC-I	20,750.33	687,431.58
TCS	32,540.23	996,713.41
TCS-B	1,768.00	55,980.86
TCS-ED	34,012.25	1,144,096.06
TCSENG		
LICSENG	1,684.00	68,304.40

Actual 2005 Labor Hours and Dollars by Labor class

TCS-I	49,872.17	1,844,154.06
TCS-W	2,061.00	49,140.09
TCS-Y	1,776.00	58,351.30
TC-W	4,878.50	135,020.35
TECDFT	1,624.50	48,569.67
TECENG	11,114.50	413,877.78
TECHSV	18,129.50	624,430.84
TECSPT	1,780.00	88,459.01
TNDDFT	4,141.00	135,606.46
TNDENG	24,978.50	774,718.84
TRNPLN	13,807.00	501,715.90
TVLBLR	71,764.75	2,637,239.44
TVLELC	20,805.25	761,061.38
TVLMCH	26,243.50	986,025.66
TVLSPV	8,686.50	338,787.59
TVLTCH	14,647.00	574,694.57
UGCREW	63,497.10	2,540,021.40
WHMSCI	13,549.00	467,266.12
WPPMNT	52,643.50	1,992,713.65
Grand Total	2,865,241.65	93,433,041.26

Source: Extract from HECO's financial tables using MS Access of recorded 2005 labor.

CA-IR-285

Ref: HECO T-10, pages 42-45 (Standard Labor Rates).

The referenced testimony generally discusses the use of standard labor rates by HECO for accounting and budgeting purposes. Please provide the following:

- a. Please provide the integrated electronic spreadsheet files (i.e., with cell formulae, workbook tabs and links to other files intact and not converted to values) and other supporting documents used in developing the standard labor rates (hours and dollars), by labor class, actually used by HECO in preparing the 2007 rate case test year forecast. Such documentation should support and clearly show how wage increases and overtime adjustments were considered in developing the standard labor rates, by labor class.
- b. In quantifying the Standard Labor Rates applied in the 2007 test year forecast, did HECO develop said rates by dividing actual 2005 regular and overtime pay (as adjusted for subsequent wage and salary increases) by actual 2005 productive hours? Please explain.
- c. Referring to subpart b. above, does the calculation of the standard labor rate exclude both nonproductive pay and hours from the numerator and denominator? Please explain.
- d. Referring to subpart c., please confirm that the calculated standard labor rate, based on productive pay and hours, is also applied to nonproductive hours in the Company's 2007 test year forecast. If this cannot be confirmed, please explain.

HECO Response:

- a. The requested electronic spreadsheet files are being provided on a compact disc. If further explanation of the files are required, the Company is willing to have a conference call to discuss the spreadsheets.
- b. Yes, as explained in HECO T-10, page 43, the basic calculation is to divide actual amounts paid by actual productive hours. For the 2007 test year forecast, 2005 recorded labor information was used. The 2005 labor hour information was then adjusted for the merit overtime hours that were not compensated to determine the base standard labor rate for 2007. For the bargaining unit labor classes, 2005 hours were adjusted to reflect the overtime

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- levels anticipated in 2007. The calculated hourly rate is then adjusted to reflect any general pay increases expected during the year in which the standard labor rates will be in effect.
- c. Yes, the calculation of the standard labor rates described in part b above excludes both nonproductive pay and hours in the development of standard labor rates.
- d. Yes, the calculated standard labor rate is applied to non-productive hours in the Company's 2007 test year forecast. Nonproductive wages are charged to account 184030 Clearings Nonproductive Wages. Nonproductive wages are then allocated by applying an on-cost dollar amount to productive labor hours, crediting account 184030 Clearings Nonproductive wages and debiting the same account that the productive labor is charged.

CA-IR-286

Ref: HECO T-10, pages 54-56 & HECO-1019 (Abandoned Projects).

Referring to HECO-1019, please provide the most representative Project Initiation Authorization (PIA) or Project Identification Form (PIF) packet best describing the original planned project for each of the following abandoned projects:

- a. BP NAS Privatization: Y00004.
- b. ACD/IVR Project Reversal of Charge.

HECO Response:

- a. See Attachment 1 of this response.
- b. See Attachment 2 of this response.

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Project Identification Form

The project identified below has not been established in MIMS

Project Title: BPNAS Privatization

Plant Addition Date: 03/2002

Project Number: Y00004

Corporate Goal: Customer Satisfaction

Strategic Plan Linkage: 2A-Retain Customers

Impact on Goal: High

Project Forecast (Thousand \$)

(Attach the "View" 5-Yr Proj Costs by Cost Category" expense report obtained from the estimators' Pillar file.)

Prior					Future		
Years	1999	2000	2001	2002	2003	Years	Total
20 9000 W 20 W	421	471	6351	380			7623

Assessment Factors (see Intranet for instructions)

<u>Compliance</u>	Competitive Advantage	Financial <u>Impact</u>	Reliability	Corporate Image	Total <u>Score</u>
41	2	0	0	0	54

Purpose/Objectives:

Acquire the Barbers Point Naval Air Station (BPNAS) electrical distribution and street lighting systems from the Navy.

Scope Description:

P0000108 - Costs in the acquisition include purchase price paid for the systems.

- P0000109 Costs include transition costs incurred as a result of acquiring the systems. Included in the transition costs are costs associated with the development, negotiation, and execution of the privatization agreement with the Navy, surveying and easement documentation, orientation of HECO's operations and construction personnel with the Navy's system, incorporation of the BPNAS maps, poles, and transformers into HECO's databases, and execution of pole attachment and duct use agreements with various communication providers using the electrical facilities at BPNAS.
- P0000110 Costs include the design and installation of customer metering equipment, including meter sockets, meter enclosures, instrument transformer compartments, customer isolation relays and switchboard service sections. This work is typically the customer's responsibility, but HECO has offered to do this work for the Navy as part of the privatization agreement.
- P0000111 Costs include the design and installation of service conductors and equipment on HECO's side of the meter.
- P0000112 Costs include upgrade of the transmission and distribution system to correct immediate safety and operational concerns.
- P0000113 Costs include upgrade of BPNAS Substation A to correct immediate safety and operational concerns.

CA-IR-286 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 2 OF 28

- P0000114 Costs include upgrade of BPNAS Substation B to correct immediate safety and operational concerns.
- P0000115 Costs include upgrade of BPNAS Substation C to correct immediate safety and operational concerns.
- P0000116 Costs include upgrade of BPNAS Substation D to correct immediate safety and operational concerns.

Resource Needs:

Various resources required to design, manage, and construct the project (refer to attached Pillar report for RA and Labor Class breakdown).

Justification:

This project will meet the Navy's desired objective to privatize the electrical distribution system at BPNAS and retain the Navy as a valued customer. This project will also ensure continuity of service for HECO's customers in the base realignment and closure (BRAC) area and create expanded opportunities for HECO's workforce.

Issues, Impacts and Considerations:

HECO first proposed a wholesale rate approach to continue serving the Navy at Schedule P rates while adding on a service charge to own, operate, maintain, and upgrade the electrical distribution system.

Due to the timing and in order to meet the 7/2/99 base closure date, HECO and the Navy agreed on a retail rate proposal that calls for the Navy to be individually metered and served at applicable tariff rate schedules.

If HECO does not acquire the Navy's BPNAS electrical distribution system, a new system will need to be built to serve HECO's customers in the BRAC area.

Consequence of HECO not doing work:	
(Please select one of the following options.)
Initialize project but do not authoriz (This creates a MIMS project number b	ce expenditures out does NOT allow a MIMS project hierarchy to be created.)
X Initialize project and authorize exp (This creates a MIMS project number a	penditures and allows creation of a project hierarchy.)
Submitted by: Roy T. Uemura	Date: October 28, 1999
Originator's Name: (Optional)	

CA-IR-286 DOCKET NO. 2006-0386 ATTACHMENT 1

Responsible Estimator: ruemura

Responsible Estimator Dept: PAGE 3 OF 28
Management

Project Manager: Roy T. Uemura (Note: Value does not appear in MIMS or Pillar

Director, Project Management (Sign and Date)

Carrent Shair

DME

(.P. Regulatory Attails

DATE

budget manager: "VEW: E-Yr Proj Cost by Cost Catagory

FYOS	\$0.00	\$0.00	\$0.00
FY02	\$0.00	00.0\$	\$0.00
P704	\$3,998,250.00	\$3,998,250.00	\$3,998,250.00
97.0	\$0.00	\$0.00	\$0.00
FY88	\$0.00	\$0.00	\$0.00
Total 6 Year Cost	\$3,998,250.00	\$3,999,250.00	\$3,998,250.00
#	ii ii	i.	***
Cost Category	OVS SVCS		
*Project #	P0000108	P0000108	

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» budget manager: "VIEW: E-Yr Proj Cost by Cost Catagory

Project#	Cost Category	##	Total 5 Year Cost	FYSS	FY00	FY	FY02	Free
9000109	AFUDC		\$90,040.65	\$3,080.81	\$56,005,41	\$30.854.43	99	80 05
900000	LABOR		\$865,118.13	\$172,523.02	\$213,004.72	\$244,890.82	\$34,699.57	80.00
0000109	MATERIAL		\$22,552.46	\$0.00	\$0.00	\$15,994.16	\$6,558.30	80.00
0000109	ONS SVCS		\$96,858.16	\$25,625.00	\$0.00	\$50,519.91	\$20,713,25	\$0.00
0000109	OVERHEADS		\$740,892.00	\$217,283.63	\$196,477.73	\$286,858.69	\$40,271.95	\$0.00
0000109	TRANSPORT	i	\$19,744.00	\$2,022.00	\$5,382.00	\$11,252.00	\$1,088.00	\$0.00
0000109		F.	\$1,635,205.40	\$420,534.46	\$470,869.86	\$640,470.01	\$103,331.07	80.00

\$0.00

\$103,331.07

\$640,470.01

\$470,869.86

\$420,534.46

\$1,635,205.40

» budget manager: "VIEW: 6-Yr Proj Cost by Cost Category

roject #	Cost Catagory	* 35	Total 5 Year Cost	FYSS	FY00	FYG	FY02	FYES
90000110	LABOR		\$21,833.16	\$0.00	00:0\$	\$18,097.88	\$3,735.28	\$0.00
0000110	OVS SVCS		\$372,915.00	\$0.00	\$0.00	\$317,715.00	\$55,200.00	\$0.00
00000110	OTHER		-\$413,848.00 J	\$0.00	\$0.00	-\$351,795.00	\$62,053.00	\$0.00
0000110	OVERHEADS		\$19,004.28	\$0.00	\$0.00	\$15,902.46	\$3,101.82	\$0.00
00000110	TRANSPORT	,	\$96.00	\$0.00	\$0.00	\$80.00	\$16.00	\$0.00
0000110			\$0.44	\$0.00	\$0.00	\$0.34	\$0.10	\$0.00

\$0,34

\$0.00

* Represents rembussionent for Oath east Exelude rembursionent from total project foreeast on cover shout.

a budget manager: "VIEW: 5-Yr Proj Cost by Cost Catagory

Project #	Cost Category	# # #	Total 6 Year Cost	FYBB	FY00	FYE	Fr02	F703
20000111			\$7,618.40	\$0.00	\$0.00	\$5,038.40	\$2,580.09	80.00
90000111	LABOR		\$40,899.66	\$0.00	\$0.00	\$32,007.22	\$8,892.44	\$0.00
90000111			\$26,824.03	\$0.00	\$0.00	\$19,023.59	\$7,800.44	\$0.00
20000111			\$106,893.16	\$0.00	\$0.00	\$87,347.05	\$19,546.11	\$0.00
0000111			\$4,584.00	\$0.00	\$0.00	\$3,286.00	\$1,298.00	\$0.00
20000111		1	\$186,819.34	\$0.00	\$0.00	\$146,702.26	\$40,117.08	\$0.00
		\$ = \(\)	\$186.819.34	898	8	24 46 702 26	2011700	90.00

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» budget manager: "VEW: 6-Yr Proj Cost by Cost Catagory

Project #	Cost Category	* 33	Total 6 Year Cost	FY86	FYBD	P.04	FY02	FYCS
P0000112	AFUDC		\$43,488.05	\$0.00	\$0.00	\$30,316.06	\$13.171.99	\$0.00
P0000112	LABOR		\$270,116.74	\$0.00	80.00	\$219,837.39	\$50,279.35	\$0.00
P0000112	MATERIAL		\$179,448.56	\$0.00	\$0.00	\$148,919.30	\$30,529.26	\$0.00
P0000112	ONS SVCS		\$157,044.54	\$0.00	80.00	\$130,327.74	\$26,716.80	\$0.00
P0000112	OVERHEADS		\$255,633.68	\$0.00	\$0.00	\$209,227.78	\$46,405.90	\$0.00
P0000112	TRANSPORT		\$40,682.00	\$0.00	\$0.00	\$33,330,00	\$7,352.00	\$0.00
P0000112		Į.	\$946,413.57	\$0.00	\$0.00	\$771,958.27	\$174,455.30	\$0.00
		1	\$946.413.57	808	908	\$774 OKR 27	C174 465 30	9

» budget menager: "VEW: 6-Yr Proj Cost by Cost Catagory

Project # Cost Catagory	# 33	Total 6 Year Cost	FY	F700	FYOI	FY02	FYOS
		\$1,920.18	\$0.00	\$0.00	\$1,920.18	80.00	00.08
P0000113 LABOR		\$41,296.72	\$0.00	\$0.00	\$41,296.72	\$0.00	\$0.00
		\$75,631.99	\$0.00	\$0.00	\$75,631.99	\$0.00	\$0.00
		\$209.40	\$0.00	\$0.00	\$209.40	\$0.00	\$0.00
		\$39,765.24	\$0.00	\$0.00	\$39,765.24	\$0.00	\$0.00
113 TRANSPORT	1	\$1,376.00	\$0.00	\$0.00	\$1,376.00	\$0.00	\$0.00
90000113		\$160,199.53	\$0.00	80.00	\$160,199.53	\$0.00	\$0.00
	•	\$160,199.53	\$0.00	\$0.00	\$160,199.53	20.03	80.08

a budget manager: "VEW: 6-Yr Proj Cost by Cost Catagory

roject #	Cost Catagory	,EE#	Total 6 Year Cost	FYSS	FY00	FY04	PY02	F
000114	AFUDC		16.776\$	\$0.00	80.00	\$977.87	00.08	00 05
-0000114	LABOR		\$37,459.06	\$0.00	\$0.00	\$37,459.06	\$0.00	000
000114	MATERIAL		\$17,669.42	\$0.00	\$0.00	\$17,669.42	\$0.00	80.00
000114	OVS SVCS		\$209.40	\$0.00	\$0.00	\$209.40	\$0.00	\$0.00
000114	OVERHEADS		\$36,102.24	\$0.00	\$0.00	\$36,102.24	\$0.00	\$0.00
000114	TRANSPORT		\$1,232.00	\$0.00	\$0.00	\$1,232.00	\$0.00	\$0.00
90000114		l	\$93,650.09	00.0 \$	\$0.00	\$93,650.09	\$0.00	\$0.00
		I	\$93,650.09	00:03	00.08	\$63 650.09	00.03	9

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» budget manager: "VEW: 6-Yr Proj Cost by Cost Catagory

roject #	Cost Catagory	* 33	Total 6 Year Cost	FYSS	FY00	FYGH	FY02	FYCE
00115	AFUDC		18.77.6\$	00:05	90 93	79 77 92	9	8
90000115	LABOR		\$37,459.06	\$0.00	20.00	\$37,459.06	8 8	3 9
20000115	MATERIAL		\$17,669.42	\$0.00	\$0.00	\$17,669.42	80.00	80.00
00115	OVS SVCS		\$209.40	\$0.00	\$0.00	\$209.40	\$0.00	\$0.00
00115	OVERHEADS		\$36,102.24	\$0.00	\$0.00	\$36,102.24	\$0.00	\$0.00
00115	TRANSPORT	1	\$1,232.00	\$0.00	\$0.00	\$1,232.00	80.08	\$0.00
0000115			\$53,650.09	\$0.00	\$0.00	\$83,650.09	\$0.00	\$0.00
		50-8	\$93,650.09	\$0.00	80.03	\$93,650.09	\$0.00	\$0.00

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» budget meneger: "VIEW: 6-Yr Proj Cost by Cost Category

Toject # Cost Catago	# 世。	Total 6 Year Cost	FYSS	P700	P	FY02	F703
		18.77.87	\$0.00	00.08	78 7788	900	8
		\$37,459.06	\$0.00	\$0.00	\$37.459.06	00:05	20.00
20000116 MATERIAL		\$17,669.42	\$0.00	\$0.00	\$17,669.42	\$0.00	20.00
		\$200.40	\$0.00	\$0.00	\$209.40	\$0.00	\$0.00
0.00	Q	\$36,102.24	\$0.00	\$0.00	\$36,102.24	\$0.00	80.00
000116 TRANSPORT	' -	\$1,232.00	\$0.00	\$0.00	\$1,232.00	\$0.00	\$0.00
90000118		\$93,660.09	00:05	\$0.00	\$93,650.09	\$0.00	\$0.00
	ı	\$93,650.09	\$0.00	\$0.00	\$93,650.09	\$0.00	\$0.00

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Project #	W-Proj	5			-	1	A COMPANY				
P0000109		A X	£	OAH	Z	\$	TCS-W	Meter Flatd Coordinator	•	•	•
P0000109	20647M	XX	11	O H	Z	35	W MTENGR	Mater Freducer	3 8	2 6	.
P0000109	20647M		E	8	Z	150	q q	Englander Manager	38 4	3 9	> ;
P0000109	20647M		1	NA T	₹	\$	4 SE	T&D Principal Engineer	24	7 2	4 5
P0000109	20647M	8	11	ĕ O	Ž	150	F TADOFT	T&D Drafting	000'1	070	3 8
P0000109	20647M	8	111	₹ O	Ž	35	B TNDENG	TED Engineer (lost Lead From)	717	8 8	8 8
P0000109	20647M	8	1	OAH	Ž	8	B PR.IMGT	Project Meranament	020,4	3,4	8 8
P0000109	20647M	8	E	ĕ ĕ	Ž	55	B PRISUP	Project Management - Analyst	2,030	> <	3
P0000109	20647M	8	11	¥ O	Z	150	B DISPLN	Distribution Planning	g a	> \$	
P0000109	20647M	8	828	¥	Z	35	B SURVEY	Survey	2 137	3 5	£3.7
P0000109	20647M	Ş	111	¥ O	ž	150	D_PTIM	Electrical, Switching		2 0	7 6
P0000109	20647M	8	=======================================	OAH	Z	35	FS-ED	OH Superintendent	340		320
P0000109	20647M	ğ	111	₹ ŏ	Z	35	_TGS-ED	OH Supervisor	95	0	8
P0000109	20647M	8	11	₹ O	ī	150	TOSED	UG Supervisor	4	0	=
P0000109	20647M	ğ	E	O F	Ž	150	D_OHOREW	OHCrows	008	0	300
P0000109	20647M	Ş	1	o ₹	Ž	150	D_UGGREW	UG Crews	1,000	0	250
P0000109	20647M	×	=	¥	Z	150	5	Financial	002	. 6	240
P0000109	20647M	Ž.	F	o ₹	Z	150	اس		98	90	380
P0000109	20647M	Ž	730	H	Z	5	ը	Rates & Regulatory	25.60	240	240
P0000109	20847M	Z	£	₹	Z	150	N_TOBUSIN	Telecomm Business Manager	190	\	5 5
P0000109	20647M	Z	=	₹	Z	35	N TOPMOR	Telecomm Project Manager	730	•	240
P0000109	20647M	*	F	o o	Z	150	R ENGMAP	Operating Engineering - Mapping	08		2
P0000109	20647M	8 8	111	¥ o	₹	3	> <u>\</u>	Energy Services Manager	8	0	2.4
P0000109	20647M	ZS ZS	£	₹ O	Z	35	8. S.	Marketing Services Director	082	340	380
P0000109	20647M	PSP	£	o ₹	Z	35	FS	Pricing Director	088	087	360
P0000109	20647M	Ž	£	₹	Z	150	W_JPCORD	Joint Pole Coordinator	500	0	S
P0000109	20647M	M.	Ξ	₹ o	Z	35	W RECORD	Records Coordinator	90%		5
P0000109	20647M	d.Wd	=======================================	₹ o	Z	150	W CUDGNR	Quetomer Designer	1380	840	8 9
P0000109	20647M	\$	111	₹ O	Z	150	W POSUPV	Planning Supv.	921	3 8	3
P0000109	20647M	ğ	416	3	Z	35	TCS-ED	UG Supervisor		3 -	3 -
P0000109	20647M	8	416	¥ O	Ž	150	D UGGREW	UG Crews	: 7	, c	, c
P0000109	20647M	8	428	8	Z	150	W_CUDGNR	Customer Designer	9		, ,
P0000109								New Control of the Co	21 834	5.782	S BOS
										4 2 2	2

» budget manager; "VIEW; 6-Yr Proj Labor Hour

Hawaijan Electric Company CONFIDENTIAL UPD99PED-JUL99BUD-MSHD.PLN Version: Jul99Bud

*Project #	*M-Proj #	*	.Vet	*10C#	# Puj		PYO	FY02	E S
P0000109		W X	Ę	₹	ž	50	0	0	
P0000109	20847M	¥	111	OAH O	Z	150	0		
P0000109	20847M	PBA	#	₩	Z	35	9	0	-
P0000109	20647M	38 6	111	₹ ŏ	ž	150	240	8	
P0000109	20647M	82	#	OAH	ž	150	8	•	0
P0000109	20647M	8 8	11	₩.	Z	150	096	400	0
P0000109	20647M	8	11	O A	₹	150	98	350	0
P0000109	20647M	8	111	OAH	Z	35	<u>‡</u>	8	. 0
P0000109	20647M	PBS	111	o F F	Ž	8	24	0	•
P0000109	20847M	P8	878	Ŧ	ž	150	1,595	0	0
P0000100	20647M	Š	#	₽ F	ž	150	303	0	0
P0000109	20647M	9	111	₩ O	Z	150	8	0	0
P0000109	20647M	8	111	₩ O	Z	35	75	0	0
P0000109	20847M	9	#	₩ O	Z	35	ક	0	0
P0000109	20647M	ģ	111	o¥+	Z	35	900	0	0
P0000109	20647M	ģ	111	OAH O	Z	150	750	0	0
P0000109	20647M	¥	111	¥	Z	051	8	0	0
P0000109	20647M	¥	111	OAH	Ž	8	8	0	0
P0000109	20647M	Ž	739	¥	Z	150	8	0	0
P0000109	20647M	Z	111	¥	Ŧ	35	8	0	0
P0000109	20647M	Z	11	¥	Z	35	\$	0	•
P0000109	20647M	PRE	111	₩.	₹	35	9	0	0
P0000109	20647M.	PSA	111	₩.	ž	35	ø	0	۵
P0000100	20647M	NS NS	11	¥	Z	35	8	0	0
P0000109	20647M	8	Ξ	OAH O	Z	35	8	0	0
P0000109	20647M	P. W.	Ŧ	¥	Ž	150	150	0	
P0000109	20847M.	PWK.	11	₩ O	ž	35	150	0	0
P0000109	20847M	A M	=	A F	7	35	150	0	0
P0000109	20647M	₩	111	O F	Z	35	0	0	0
P0000109	20847M	6	416	₽	ž	150	1	•	0
P0000109	20847M	ğ	418	₩.	₹	150	245	8	•
P0000109	20847M	P. P.	428	OAH O	Ž	150	533	107	0
P0000109							8,289	1,070	
						9.5			

» budget manager: "VIEW: 6-Yr Proj Labor Hour

Hawaiian Electric Company CONFIDENTIAL UPD69PED-UU-99BUD-MSHO,PLN Version: Ju499Bud

» budget menager; "VEW; 6-Yr Proj Labor Hour

FY38 FY00	0 0	0	0	0	
Total 6 Year Lbr Hour	240	52	480	772	
Line Nem	16D Engineer (Incl. Lead Engr.)	Meter Field Coordinator	Meter Engineer		
"Loc# 'ind# "EE# "Labor Class# Line Nam	B_TNDENG	TCS-W	W_MTENGR		
*	35	₹ 8	35 _		
*	*	8	#		
Loc #	50	5	5		
ÿ	109	2	8		
*	986	¥	¥		
* Fro	20647M PBE 84	20647M	20647M		
	P0000110			01100004	

Hawaiian Electric Company CONFIDENTIAL UPD09PED-JUL98BUD-MSHO,PLN Version: Jul99Bud

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ect #	*M-Pro	*	.Vet	Loc.	# Pul		FYO	FY02	F788
0110	20647M		6	5	*	8	30	4	0
3000110	20647M	WX	8	5	*	150	4	60	0
0000110	20647M	-	50	5	8	8	9	8	0
0110							1	128	0
							¥	128	0

» budget manager: "VIEW: 6-Yr Proj Labor Hour

5		"Loc # "Ind #	#33	"Labor Class # Line Item	Line Item	Total 6 Year Lbr Hour	238	F/00
4	416 OAH	Z	150	TCS-ED	UG Supervisor	8	0	0
4	16 OAH	ž	150	D_UGCREW	UG Crews	460	0	0
20647M PWP 42	28 OAH	Z	35	W_CUDGNR	Customer Designer	821	0	0
						1,301	0	0
						1301		ľ

Haweilen Electric Company CONFIDENTIAL UPDGGPED-JUL 89BUD-MSHO, PLN Version: Jul96Bud

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0000111 20647M PDP 416 OAH NI 150 14 6 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1	Project #	*M-Pro	2	.Vet	3	Pu.	* 30	5	FY02	Pros
11 20647M PWP 428 OAH NI 150 328 11 20647M PWP 428 OAH NI 150 664	0000111	20647M	8	416	Ø.	₹	150	=	80	0
1 20847M PWP 428 OAH NI 150 684	0000111	20647M	9	416	₩	Z	35	328	132	0
	0000111	20647M	*	428	OAH	Z	2	48	137	0
	0000111							1,026	275	0

» budget manager: "VIEW: 6-Yr Proj Labor Hour

Project #	* Proj	2		2	Pa.	#	"Labor Class #	Line Nem	Total 5 Year Lbr Hour	8	P700
P0000112	20647M	Æ	603	Ŏ H	Z		B TNDOFT	T&D Drafting	004	0	0
0000112			403	OAH O	Z		B TNDENG	T&D Engineer (Incl. Leed Engr.)	1.000	•	0
0000112			415	OAH	ž	35	MTP 0	Electrical, Switching	200	0	0
0000112			416	Q F	ž		MTP 0	Electrical, Switching	200	0	0
0000112			415	OAH	ž	150	FS-ED	System Forester	120	0	0
0000112			415	Q F	ž	150	TCS-ED	OH Supervisor	107	0	0
0000112			415	OAH O	Z		>	OH Crews	2.557	0	0
0000112		-	416	OAH	ž	35		UG Supervisor	168	0	0
0000112			418	₹	ž	85	D_UGGREW	UG Crews	4,034	0	0
0000112									8,786	0	0
									907.0	ľ	ľ

M-Proj #	*	.Vet	, Loc.	# pur	*	5	FY02	2
0647M	8	403	OAH	Z	150	330	22	0
20647M.	8	403	OAH	ž	55	818	181	0
20647M	8	415	OAH	Z	55	話	37	0
20647M	ğ	416	OAH	ž	150	163	37	0
20647M	8	415	OAH	Z	55	5	8	0
20647M	8	415	OAH	ž	150	88	19	0
20847M	9	415	OA H	ž	150	2,083	484	0
20647M	8	416	OAH	Z	150	137	3	0
0647M	8	416	OAH	Z	35	3,302	732	0
					l	7,195	1.591	0

P0000112 P0000112 P0000112 P0000112 P0000112 P0000112 P0000112 P0000112

» budget manager: "VEW: 6-Yr Proj Labor Hour

*Project #	"M-Proj#	*	. Act	*10c	*	*	"Labor Cless #	Line Hern	Total 6 Year Lbr Hour	2	738
P0000113		8	408	Ø.	Ž	8	8000	Deswing Control/Clerk Toolet Support	100		
P0000113		8	408	3	ž	\$	9	Memore - Enor Dect - Sunavise		,	
P0000113		PBS	904	ŏ.	Ž	150	B DISPLN	Distribution Plenning			
P0000113		P87	400	o ₩	ž	150	B PROTEC	Protection	5 45		
P0000113		₽	504	OAH	Ž	\$	B SSENG	Electrical - Design Substation (incl. Lead Engl	5 \$2		
P0000113		PBY	504	OAH	Ź	150	B SUBDET	Electrical - Drafting	4	0	0
P0000113		PBY	408	₩	Ź	150	BUOCB	Project Clerk Support (F. Yamene - BY)	. 4	0	0
P0000113		PBY	408	ĕ	ž	150	FS-B	Principal/Director - Supervise	24	0	0
P0000113		₽84	417	OAH O	ž	3 5	B_SSENG	Electrical - Freid Follow (Incl as-builts)	24	0	0
P0000113		PBY	417	₹	Z	051	B SUBDET	Electrical - Drafting - as-builts	33	0	0
P0000113		PBY	842	¥	Z	35	B SSENG	Electrical - Order Metertals		0	0
P0000113		№	1	¥	ž	35	B_SSENG	Electrical - Bid Process & Contract Mgmt for a	• ••	0	0
P0000113		2	417	¥	ž	8	R_INSCRW	Instrumentation - Tech	8	0	0
P0000113		æ	417	OAH	ž	50	R_INSENG	Instrumentation - Engineer	16	0	0
P0000113		æ	420	NO H	ž	35	R_INSSUP	Instrumentation - Supv.	•	0	0
P0000113		PRR	417	OA H	Z	35	R_RELORW	Relay/Testing - Tech	98	0	•
P0000113		PRR	417	OAH	Z	150	R_RELENG	Relay/Testing - Engineer	16	0	0
P0000113		8	420	¥	Z	35	R_RELSUP	Relay/Teating - Supv.	16	0	0
P0000113		PRR	420	OA H	Z	35	R_TECSPT	Ralery - Supt.	•	0	0
P0000113		P	420	OAH	Z	35	R_TECSPT	Substation Construction - Electrical Supt.	16	0	0
P0000113		PRS	417	ĕ	Z	150	R SUBCRW	Substation Construction - Electrical- Crews	280	0	0
P0000113		PRS	417	Ø.	ž	150	R SUBCRW	Removals - Substation	24	o	0
P0000113		8 88	420	NO.	Z	35	R SUBENG	Substation Construction - Electrical- Engr	**	0	0
P0000113		PRS	420	OAH	ž	150	R_SUBPLN	Substation Construction - Electrical- Pinr	•	0	0
P0000113		PRS	420	N N	Z	<u>\$</u>	R_SUBSUP	Substation Construction - Electrical-Supv.	\$	0	0
P0000113		ž	418	₩ O	Z	9	R_CONCRW	CSA In-House Construction - Crew	120	0	0
P0000113		ž	420	ĕ	Z	35	-	CSA In-House Construction - Construction S	75	0	0
P0000113									1,369	0	0

Hawaiian Electric Company CONFIDENTIAL UPD89PED-JUL99BUD-MSHO, PLN Version: Jul99Bud

CA-IR-286 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 22 OF 28

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Project #	"M-Proj #	*	.Vet	10c#	*	*	FYON	FY02	FYOS	
P0000113	X.	¥	804	¥	Z	35	24	0	0	
P0000113	8	ð	408	OAH	Z	150	•	0	0	
P0000113	ď	88	9	₩ O	Z	150	5	0	0	
P0000113	æ	№	400	₩ O	Z	35	á	0	•	
P0000113	æ	₹	8	OAH	Z	150	52	0	0	
P0000113	X.	₩	8	o≱+	Z	150	4	0	0	
P0000113	*	Æ	408	OAH	Z	150	9	0	•	
P0000113	*	Α	408	₩ O	Z	8	7.	•	0	
P0000113	*	Æ	417	A O	ž	55	2	0	0	
P0000113	X	ě	417	N O	Z	55	32	•	0	
P0000113	*	6	842	¥	ž	150	80	٥	0	
P0000113	8	₽BĄ	7	¥	Ŧ	150	80	0	0	
P0000113	X.	œ	417	₩ O	Z	35	8	0	0	
P0000113	*	æ	417	¥	Z	150	91	0	0	
P0000113	X.	ē	629	OAH	Z	150	•0	0	0	
P0000113	*	PR	417	₩ O	Ž	150	8	0	0	
P0000113	*	æ	417	₩ O	Z	35	92	0	0	
P0000113	*	æ	420	O O	Z	150	92	0	•	
P0000113	K.	æ	420	₩ O	Z	35	80	0	0	
P0000113	ä	8	420	OAH	Z	150	£	•	0	
P0000113	X.	RS	417	ĕ	Z	150	280	0	0	
P0000113	*	SS	417	₩	¥	150	77	0	0	
P0000113	ä	PRS	420	₩ O	Z	150	80	0	0	
P0000113	ä	SS	8	OAH	Z	150	•	0	0	
P0000113	*	S	\$20	₹	Z	150	4	•	0	
P0000113	X.	×	418	OAH O	Z	150	52	0	0	
P0000113	ă.	ž	8	OAH	Z	150	75	0	0	
P0000113						I	1,369	0	0	
						1	1,369	ľ	ľ	
							C109 (C10) (

» budget manager: "VIEW: 6-Yr Proj Labor Hour

Heweien Electric Company CONFIDENTIAL UPD69PED-JUL96BUD-MSHO.PLN Version: Ju69Bud

a budget manager: "VIEW: 6-Yr Proj Labor Hour

PBA 408 OAH NI 150 _BUCGB Drawing Control/Clerk Typiet Support PBA 408 OAH NI 150 _BEBTA Destruction Planning PBY 400 OAH NI 150 _BENEVIEC Benetration Planning PBY 405 OAH NI 150 _BENEVIEC Benetrated - Drafting PBY 406 OAH NI 150 _BENEVERT Benetrated - Finite Tollow (not be builts) PBY 406 OAH NI 150 _BENEVERT Benetrated - Finite Tollow (not be builts) PBY 417 OAH NI 150 _BESENG _Benetrated - Finite Tollow (not be builts) PBY 417 OAH NI 150 _BESENG _Benetrated - Built Tollow (not benetrated built) PBY 417 OAH NI 150 _BESENG _Benetrated - Built Tollow (not built) PBY 417 OAH NI 150 _BENEVERT _Benetrated - Coult Mart for start and start and start and start and start and st	PBA 408 OAH NI 150 _EB Drawing Control/Clerk Typist Support PBA 408 OAH NI 150 _EB Marrager - Engr. Dept Supervise PBY 400 OAH NI 150 _EDROPT Protection - Planning PBY 405 OAH NI 150 _ESENG Protection - Death of Planning PBY 405 OAH NI 150 _ESENG Protection - Death of Planning PBY 406 OAH NI 150 _ESENG Protection - Death of Planning PBY 417 OAH NI 150 _ESENG Protection - Death of Planning PBY 417 OAH NI 150 _ESENG Protection - Death of Planning PBY 417 OAH NI 150 _ESENG Protection - Death of Planning PBY 417 OAH NI 150 _ESENG _Escription - Death of Planning PRI 417 OAH NI	Project #	*W-Proj &	\$.vet	, Sec	*	* 33	Labor Cless #	Line Nem	Total & Year Lbr Hour	2	FY00
PBA 408 OAH NI 150 E-B Marragor - Engr Dept. Supervise PBS 400 OAH NI 150 B DISPLN Dientrution Planning PBY 400 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 406 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 406 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 406 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 417 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 417 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 417 OAH NI 150 B SSENG Electroal - Dengin Substitution (ricl Lead Engl.) PBY 417 OAH NI 150 B SSENG Electroal	PBA 408 OAH NI 150 E-B Marriage - Engr. Dept. Supervise PBS 400 OAH NI 150 B_DISPLN Destroacion PBY 406 OAH NI 150 B_SIRBOFT Electrical - Dentifyor PBY 406 OAH NI 150 B_SIRBOFT Electrical - Dentifyor PBY 408 OAH NI 150 B_SIRBOFT Electrical - Dentifyor PBY 408 OAH NI 150 B_SIRBOFT Electrical - Dentifyor PBY 406 OAH NI 150 B_SIRBOFT Electrical - Dentifyor PBY 417 OAH NI 150 B_SIRBOFT Electrical - Dentifyor PBY 420 PHE NI 150 B_SIRBOFT Electrical - Dentifyor PBY 441 OAH NI 150 B_SIRBOFT Electrical - Dentifyor Electrical - Dentifyor PBR 477 OAH NI 150	P0000114		Æ	408	O H	ž	35	BUOCE	Drawing Control/Clerk Typist Support	•		C
PBS 400 OAH NI 150 B_OISPLN Particulon Planning PBY 400 OAH NI 150 B_OISPLN Phintibution Planning PBY 405 OAH NI 150 B_SEBNG Electrical - Deadyn Substation (Incl. Lead England) PBY 408 OAH NI 150 B_SEBNG PhintipathOhador - Suprante PBY 417 OAH NI 150 B_SEBNG Electrical - Clark Support (F. Yamane - BY) PBY 417 OAH NI 150 B_SEBNG Electrical - Clark Support (F. Yamane - BY) PBY 417 OAH NI 150 B_SEBNG Electrical - Clark Support (F. Yamane - BY) PBY 417 OAH NI 150 B_SEBNG Electrical - Clark Clay (A) PRR 417 OAH NI 150 R_NSSUP Hartumentation - Engineer PRR 417 OAH NI 150 R_ELESJP Ready/Teating - Bup-Teating - Bup-Teating - Bup-Teating - Bup-Teating - Bup-Teating - Bup-Teating	PBS 400 OAH NI 150 B_DISPLN Destroation PBY 400 OAH NI 150 B_DISPLN Bectoal - Design Substation (incl. Lead Engl.) PBY 406 OAH NI 150 B_SUBDFT Bectoal - Design Substation (incl. Lead Engl.) PBY 408 OAH NI 150 B_SUBDFT Bectoal - Design (F. Yamana - BY) PBY 408 OAH NI 150 B_SUBDFT Bectoal - Clark (support (F. Yamana - BY)) PBY 417 OAH NI 150 B_SUBDFT Bectoal - Clark (support (F. Yamana - BY)) PBY 417 OAH NI 150 B_SUBDFT Bectoal - Clark (support (F. Yamana - BY)) PBY 441 PHE NI 150 B_SUBDFT Bectoal - Clark (support (F. Yamana - BY)) PBY 844 PHE NI 150 B_SUBDFT Bectoal - Clark (support (F. Yamana - BY)) PBY 447 OAH NI 150 R_NSEDGW Bectoal - Clark (support (F. Yamana - BY)) </td <td>P0000114</td> <td></td> <td>₽ ¥</td> <td>804</td> <td>₹ F</td> <td>Z</td> <td>3</td> <td>E-B</td> <td>Manager - Engr Dect - Supervise</td> <td>) 5</td> <td>, c</td> <td>) C</td>	P0000114		₽ ¥	804	₹ F	Z	3	E-B	Manager - Engr Dect - Supervise) 5	, c) C
PBY 400 OAH NI 150 B_SSENG Electroal - Design Substation (Incl. Lead Engl PBY 405 OAH NI 150 B_SSENG Electroal - Design Substation (Incl. Lead Engl PBY 408 OAH NI 150 B_SSENG Electroal - Design (Incl. seb-bulls) PBY 417 OAH NI 150 B_SSENG Electroal - Design (Incl. seb-bulls) PBY 417 OAH NI 150 B_SSENG Electroal - Order Malanins PBY 417 OAH NI 150 B_SSENG Electroal - Order Malanins PBY 417 OAH NI 150 B_SSENG Electroal - Order Malanins PRI 417 OAH NI 150 R_NSCRW Electroal - Order Malanins PRI 417 OAH NI 150 R_NSCRW Electroal - Order Malanins PRI 417 OAH NI 150 R_NSCRW Instrumentation - Supr. PRR 417 <t< td=""><td>PBY 400 OAH NI 150 B_SSENG Electroal - Design Substation (Incl Lead Engl PBY 405 OAH NI 150 B_SSENG Electroal - Design Substation (Incl Lead Engl PBY 408 OAH NI 150 B_SSENG Electroal - Design (Incl as builts) PBY 417 OAH NI 150 B_SSENG Electroal - Design (Incl as builts) PBY 417 OAH NI 150 B_SSENG Electroal - Design (Incl as builts) PBY 417 OAH NI 150 B_SSENG Electroal - Order Materials PBY 417 OAH NI 150 B_SSENG Electroal - Order Materials PBY 417 OAH NI 150 R_INSENG Instrumentation - Supp. PRI 417 OAH NI 150 R_INSENG Instrumentation - Supp. PRR 417 OAH NI 150 R_INSENG Instrumentation - Supp. PRR 417</td><td>P0000114</td><td></td><td>88</td><td>9</td><td>§</td><td>ž</td><td>150</td><td>B DISPLN</td><td>Distribution Planning</td><td>. 4</td><td>, ,</td><td>,</td></t<>	PBY 400 OAH NI 150 B_SSENG Electroal - Design Substation (Incl Lead Engl PBY 405 OAH NI 150 B_SSENG Electroal - Design Substation (Incl Lead Engl PBY 408 OAH NI 150 B_SSENG Electroal - Design (Incl as builts) PBY 417 OAH NI 150 B_SSENG Electroal - Design (Incl as builts) PBY 417 OAH NI 150 B_SSENG Electroal - Design (Incl as builts) PBY 417 OAH NI 150 B_SSENG Electroal - Order Materials PBY 417 OAH NI 150 B_SSENG Electroal - Order Materials PBY 417 OAH NI 150 R_INSENG Instrumentation - Supp. PRI 417 OAH NI 150 R_INSENG Instrumentation - Supp. PRR 417 OAH NI 150 R_INSENG Instrumentation - Supp. PRR 417	P0000114		88	9	§	ž	150	B DISPLN	Distribution Planning	. 4	, ,	,
PBY 465 OAH NI 150 B_SSENG Electrical - Death Substation (Incl. Lead Engl PBY 465 OAH NI 150 B_SUBDFT Electrical - Death Supervise PBY 408 OAH NI 150 B_SSENG Electrical - Death Supervise PBY 417 OAH NI 150 B_SSENG Electrical - Fleid Follow (Incl. eab-builts) PBY 417 OAH NI 150 B_SSENG Electrical - Fleid Follow (Incl. eab-builts) PBY 84 PHE NI 150 B_SSENG Electrical - Chark Materials PBY 84 PHE NI 150 R_NSENG Electrical - Chark Materials PBY 844 PHE NI 150 R_NSENG Electrical - Chark Materials PBY 844 PHE NI 150 R_NSENG Electrical - Chark Materials PBY 844 PHE NI 150 R_NSENG Electrical - Chark Materials PBY 417	PBY 405 OAH NI 150 B_SSENG Electrical - Drafting PBY 405 OAH NI 150 B_SUBDFT Electrical - Drafting PBY 408 OAH NI 150 B_SSENG Electrical - Drafting PBY 417 OAH NI 150 B_SSENG Electrical - Drafting - B-builds PBY 417 OAH NI 150 B_SSENG Electrical - Corder (incl as-builds) PBY 417 OAH NI 150 B_SSENG Electrical - Corder (incl as-builds) PBY 420 PHE NI 150 B_SSENG Electroal - Corder (incl as-builds) PBY 420 PHE NI 150 B_SSENG Electroal - Corder (incl as-builds) PRI 477 OAH NI 150 R_INSSUP Instrumentation - End of the Action of Corder (incl as-builds) PRR 470 OAH NI 150 R_INSSUP Real-troal - But Process & Corder (incl as-builds)	P0000114		P84	9	₹	Z	150	B PROTEC	Protection	91	· c	, c
PBY 405 OAH NI 150 B_SUBDFT Electrical - Drafting PBY 408 OAH NI 150 _BUOC8 Project Clark Support (F. Yamane - BY) PBY 408 OAH NI 150 B_SSENG Electrical - Flaid Folkow (find se-builts) PBY 417 OAH NI 150 B_SSENG Electrical - Order Materials PBY 447 OAH NI 150 B_SSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSENG Instrumentation - Engineer PRR 417 OAH NI 150 R_NSENG Instrumentation - Engineer PRR 417 OAH NI 150 R_RELENG Resignmentation - Engineer PRR 417 OAH NI 150 R_RELENG Resignmentation - Engineer PRR 417 OAH NI 150 R_RELENG Resignmentation - Engineer PRR 417 OAH NI	PBY 465 OAH NI 150 B_SUBDFT Electricat - Drafting PBY 448 OAH NI 150 B_SUBDFT Electricat - Support (F. Yamana- BY) PBY 417 OAH NI 150 B_SSENG Electricat - Find Follow (incl see builts) PBY 417 OAH NI 150 B_SSENG Electricat - Order Materials PBY 842 PHE NI 150 B_SSENG Electricat - Order Materials PBY 844 PHE NI 150 B_SSENG Electricat - Order Materials PRI 417 OAH NI 150 R_NSENG Electricat - Order Materials PRI 417 OAH NI 150 R_NSENG Electricat - Order Materials PRI 417 OAH NI 150 R_NSENG Electricat - Order Materials PRR 417 OAH NI 150 R_RELEBY ReallyTeating - Engineer PRR 420 OAH NI <td>P0000114</td> <td></td> <td>F8</td> <td>804</td> <td>8</td> <td>ž</td> <td>150</td> <td>B SSENG</td> <td>Electrical - Design Substation (incl. Lead Engl</td> <td>557</td> <td></td> <td></td>	P0000114		F8	804	8	ž	150	B SSENG	Electrical - Design Substation (incl. Lead Engl	557		
PBY 408 OAH NI 150 BUOCK Phyliad Clark Support (F. Yamana - BY) PBY 406 OAH NI 150 FS-B Phinopal/Director - Supervise PBY 417 OAH NI 150 B_SSENG Electrical - Charle (not ex-builts) PBY 417 OAH NI 150 B_SSENG Electrical - Charle Maintains PBY 447 OAH NI 150 R_NSCRW Instrumentation - Text PRR 417 OAH NI 150 R_NSCRW Instrumentation - Expriser PRR 417 OAH NI 150 R_NSCRW Instrumentation - Expriser PRR 417 OAH NI 150 R_NSCRW Instrumentation - Expriser PRR 417 OAH NI 150 R_NSCRW Resignification - Supr. PRR 417 OAH NI 150 R_NSCRW Resignification - Supr. PRR 417 OAH NI 150<	PBY 408 OAH NI 150 BUOCK Phylicat Clark Support (F. Yamana - BY) PBY 408 OAH NI 150 FS-B Phinopal/Director - Supervise PBY 417 OAH NI 150 B_SSENG Electrical - Field Follow (incl se-builds) PBY 417 OAH NI 150 B_SSENG Electrical - Christing - se-builds PBY 417 OAH NI 150 B_SSENG Electrical - Christing - Christ	P0000114		₩	\$02	₩ O	Z	35	B SUBDET	Electrical - Drafting	*8		0
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PBY 417 OAH NI 150 B_SSENG Electrical - Drafting - as-bulks PBY 642 PHE NI 150 B_SSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSENG Instrumentation - Tech PRI 417 OAH NI 150 R_NSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_RELENA Relevance - Technology PRR 417 OAH NI 150 R_RELENA Relevance - Technology PRR 420 OAH NI 150 R_TECSPT Relevance - Superinction - Electrical - Crew PRS 417 OAH NI 150 R_TECSPT Relevance - Subartation Construction - Electrical - Crew PRS 417 OAH NI 150 R_SUBCRY Relevance - Subartation Construction - Electrical - Crew PRS 4	PBY 417 OAH NI 150 B_SSENG Electrical - Drafting - se-builds PBY 842 PHE NI 150 B_SSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSSENG Electrical - Broth Process & Contract Mgmt for e PRI 417 OAH NI 150 R_NSSENG Instrumentation - Engineer PRR 417 OAH NI 150 R_RELGRY Resignificating - Engineer PRR 420 OAH NI 150 R_RELGRY Resignificating - Engineer PRR 420 OAH NI 150 R_RELGRY Resignificating - Engineer PRR 420 OAH NI 150 R_RELGRY Resignificating - Engineer PRR 420 OAH	P0000114		¥9	417	A	ž	35	B SSENG	Electrical - Fleid Follow (Incl 88-builts)	24		
PBY 842 PHE NI 150 B_SSENG Electrical - Order Materials PRI 417 OAH NI 150 R_NSCRW Instrumentation - Tech PRI 417 OAH NI 150 R_NSSENG Electrical - Bid Process & Contract Mgmt for a PRI 417 OAH NI 150 R_NSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_RECRW Rais/Teating - Engineer PRR 417 OAH NI 150 R_RELSUP Rais/Teating - Engineer PRR 420 OAH NI 150 R_RELSUP Rais/Teating - Supv. PRS 420 OAH NI 150 R_RECSPT Raisettion Construction - Electrical Craws PRS 417 OAH NI 150 R_SUBGRW Removale - Substation PRS 420 OAH NI 150 R_SUBGRW Substation Construction - Electrical Supv. PRS 420 OAH <t< td=""><td>PBY 642 PHE NI 150 B_SSENG Electrical - Did Process & Contract Marri for a PRI 417 OAH NI 150 R_NSCRW Instrumentation - Tech PRI 417 OAH NI 150 R_NSENG Electrical - Bid Process & Contract Marring for a PRI 417 OAH NI 150 R_NSENG Instrumentation - Engineer PRR 417 OAH NI 150 R_RELORM Relevance PRR 420 OAH NI 150 R_SUBGAN Removes - Subcatation PRS 420 OAH NI 150 R_SUBGAN Removes - Subcatation Rectrical- Engineer PRS 420 OAH NI 150</td><td>P0000114</td><td></td><td>19</td><td>417</td><td>ð</td><td>Ž</td><td>150</td><td>B_SUBDFT</td><td>Electrical - Drafting - aq-builts</td><td>9</td><td></td><td></td></t<>	PBY 642 PHE NI 150 B_SSENG Electrical - Did Process & Contract Marri for a PRI 417 OAH NI 150 R_NSCRW Instrumentation - Tech PRI 417 OAH NI 150 R_NSENG Electrical - Bid Process & Contract Marring for a PRI 417 OAH NI 150 R_NSENG Instrumentation - Engineer PRR 417 OAH NI 150 R_RELORM Relevance PRR 420 OAH NI 150 R_SUBGAN Removes - Subcatation PRS 420 OAH NI 150 R_SUBGAN Removes - Subcatation Rectrical- Engineer PRS 420 OAH NI 150	P0000114		19	417	ð	Ž	150	B_SUBDFT	Electrical - Drafting - aq-builts	9		
PBY 844 PHE NI 150 B_SSENG Electrical - Bid Process & Contract Mgmt for a. PRI 417 OAH NI 150 R_NSCRW Innatumentation - Engineer PRI 417 OAH NI 150 R_NSSUP Innatumentation - Engineer PRR 417 OAH NI 150 R_RELCRW Relevance PRR 417 OAH NI 150 R_RELCRW Relevance PRR 417 OAH NI 150 R_RELCRW Relevance PRR 420 OAH NI 150 R_RELSUP Relevance PRR 420 OAH NI 150 R_SUBCRW Relevance PRS 417 OAH NI 150 R_SUBCRW Removele - Subcatrochon - Electroal- Crewe PRS 420 OAH NI 150 R_SUBCRW Removele - Subcatrochon - Electroal- Engr PRS 420 OAH NI 150 R_SUBSUP <td< td=""><td>PBY 844 PHE NI 150 B_SSENG Elevatical - Bid Process & Contract Mgmt for a PRI 417 OAH NI 150 R_INSCRW Instrumentation - Tooh PRI 420 OAH NI 150 R_INSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_INSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_INSSUP Reading - Tooh PRR 417 OAH NI 150 R_INSSUP Reading - Engineer PRR 420 OAH NI 150 R_INSSUP Reading - Supr. PRS 420 OAH NI 150 R_INSSUP Reading - Supr. PRS 420 OAH NI 150 R_INDSRW Removes - Substanton Construction - Electrical Crevie PRS 420 OAH NI 150 R_INDSRW Removes - Substanton Construction - Electrical Crevie PRS 420 OAH</td><td>P0000114</td><td></td><td>₩</td><td>2</td><td>Ŧ</td><td>Z</td><td>150</td><td>B SSENG</td><td>Electrical - Order Materials</td><td>•0</td><td>•</td><td>0</td></td<>	PBY 844 PHE NI 150 B_SSENG Elevatical - Bid Process & Contract Mgmt for a PRI 417 OAH NI 150 R_INSCRW Instrumentation - Tooh PRI 420 OAH NI 150 R_INSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_INSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_INSSUP Reading - Tooh PRR 417 OAH NI 150 R_INSSUP Reading - Engineer PRR 420 OAH NI 150 R_INSSUP Reading - Supr. PRS 420 OAH NI 150 R_INSSUP Reading - Supr. PRS 420 OAH NI 150 R_INDSRW Removes - Substanton Construction - Electrical Crevie PRS 420 OAH NI 150 R_INDSRW Removes - Substanton Construction - Electrical Crevie PRS 420 OAH	P0000114		₩	2	Ŧ	Z	150	B SSENG	Electrical - Order Materials	•0	•	0
PRI 417 OAH NI 150 R_INSCRW Instrumentation - Tech PRI 417 OAH NI 150 R_INSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_INSSUP Instrumentation - Engineer PRR 417 OAH NI 150 R_RELCRW Relay/Teating - Engineer PRR 420 OAH NI 150 R_RELSUP Relay/Teating - Engineer PRR 420 OAH NI 150 R_RELSIP Relay/Teating - Supv. PRR 420 OAH NI 150 R_RELSPT Relay/Teating - Supv. PRS 417 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBENG Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBENG Substation Construction - Electrical Engr PRS 420 OAH NI	PRI 417 OAH NI 150 R_NSGRW Instrumentation - Tech PRI 417 OAH NI 150 R_NSSUP Instrumentation - Engineer PRI 420 OAH NI 150 R_RELGRW Rahay/Teating - Tech PRR 417 OAH NI 150 R_RELGRW Rahay/Teating - Supv. PRR 420 OAH NI 150 R_RELSUP Rahay/Teating - Supv. PRR 420 OAH NI 150 R_RELSUP Rahay/Teating - Supv. PRR 420 OAH NI 150 R_SUBCRW Substation Construction - Electroal- Craws PRS 417 OAH NI 150 R_SUBCRW Removale - Substation Construction - Electroal- Craws PRS 420 OAH NI 150 R_SUBCRW Resubstation Construction - Electroal- Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Craws PRX 418 OAH	000114		78	4	¥	Z	051	BSSENG	Electrical - Bid Process & Contract Marrit for a	•		0
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PRI 420 OAH NI 150 R_INSSUP Instrumentation - Supp. PRR 417 OAH NI 150 R_RELENG Releving - Engineer PRR 417 OAH NI 150 R_RELENG Releving - Engineer PRR 420 OAH NI 150 R_RELENG Releving - Engineer PRR 420 OAH NI 150 R_RELESPT Releving - Engineer PRS 417 OAH NI 150 R_RELESPT Releving - Engineer PRS 417 OAH NI 150 R_SUBCRW Substation Construction - Electrical- Crewe PRS 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical- Crewe PRS 420 OAH NI 150 R_SUBBLY Substation Construction - Electrical- Crewe PRS 420 OAH NI 150 R_SUBBLY Substation Construction - Electrical- Crewe PRX 418 OAH <t< td=""><td>PRR 420 OAH NI 150 R_INSSUP Instrumentation - Supv. PRR 417 OAH NI 150 R_RELGRW Relay/Testing - Engineer PRR 417 OAH NI 150 R_RELSUP Relay/Testing - Engineer PRR 420 OAH NI 150 R_RELSUP Relay/Testing - Supv. PRR 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crews PRS 417 OAH NI 150 R_SUBCRW Removals - Subcration PRS 420 OAH NI 150 R_SUBCRW Removals - Subcration PRS 420 OAH NI 150 R_SUBCRW Removals - Subcratic PRS 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crew PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Crew PRX 418 OAH NI</td><td>000114</td><td></td><td>Ē</td><td>417</td><td>¥</td><td>Z</td><td>150</td><td>R_INSENG</td><td>Instrumentation - Engineer</td><td>80</td><td>•</td><td>0</td></t<>	PRR 420 OAH NI 150 R_INSSUP Instrumentation - Supv. PRR 417 OAH NI 150 R_RELGRW Relay/Testing - Engineer PRR 417 OAH NI 150 R_RELSUP Relay/Testing - Engineer PRR 420 OAH NI 150 R_RELSUP Relay/Testing - Supv. PRR 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crews PRS 417 OAH NI 150 R_SUBCRW Removals - Subcration PRS 420 OAH NI 150 R_SUBCRW Removals - Subcration PRS 420 OAH NI 150 R_SUBCRW Removals - Subcratic PRS 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crew PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Crew PRX 418 OAH NI	000114		Ē	417	¥	Z	150	R_INSENG	Instrumentation - Engineer	80	•	0
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PRR 420 OAH NI 150 R_TECSPT Relay/Testing - Supv. PRR 420 OAH NI 150 R_TECSPT Relay - Supt. PRS 417 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crewe PRS 417 OAH NI 150 R_SUBCRW Removes - Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBENQ Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBENQ Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBSUP RUDINATION - Electrical Engr PRX 418 OAH NI 150 R_SUBSUP RUDINATION - Electrical Engr PRX 420 OAH NI 150 R_CONCRW CSA In-House Construction - Construction S	PRR 420 OAH NI 150 R_TECSPT Relay/Testing - Supv. PRR 420 OAH NI 150 R_TECSPT Relay - Supt. PRS 417 OAH NI 150 R_SUBCRW Substation Construction - Electrical - Crewe PRS 417 OAH NI 150 R_SUBCRW Removes - Substation Construction - Electrical - Crewe PRS 420 OAH NI 150 R_SUBENQ Substation Construction - Electrical - Crewe PRS 420 OAH NI 150 R_SUBENQ Substation Construction - Electrical - Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical - Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical - Engr PRX 418 OAH NI 150 R_SUBSUP R_CONCRW CSA In-House Construction - Construction S	000114		£	417	₹	Z	150	R_RELENG	Relay/Teeting - Engineer	16	0	0
PRR 420 OAH NI 150 R_TECSPT Relay - Supt. PRR 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crewe PRS 417 OAH NI 150 R_SUBCRW Removes - Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBEN Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBPL Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBPL Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Engr PRX 418 OAH NI 150 R_SUBSUP CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRR 420 OAH NI 150 R_TECSPT Relay - Supt. PRR 420 OAH NI 150 R_SUBCRW Substation Construction - Electrical Crewe PRS 417 OAH NI 150 R_SUBCRW Removes - Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBEN Substation Construction - Electrical Crewe PRS 420 OAH NI 150 R_SUBEN Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Engr PRX 418 OAH NI 150 R_SUBSUP CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONCRW CSA In-House Construction - Construction S	000114		£	420	₹ O	Z	150	R_RELSUP	Relay/Testing - Supv.	77	0	0
PRR 420 OAH NI 150 R_EUBCRW Subtration Construction - Electrical- Grews PRS 417 OAH NI 150 R_SUBCRW Subtration Construction - Electrical- Grews PRS 420 OAH NI 150 R_SUBENG Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBPLW Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBPLW Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBSUP Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBSUP Subtration Construction - Electrical- Engr PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Construction S	PRR 420 OAH NI 150 R_EUBCRW Subtration Construction - Electrical- Graws PRS 417 OAH NI 150 R_SUBCRW Subtration Construction - Electrical- Graws PRS 420 OAH NI 150 R_SUBENG Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBPLW Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBPLW Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBSUP Subtration Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBSUP Subtration Construction - Electrical- Engr PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Construction S	000114		£	20	₹	Z	92	R_TECSPT	Reday - Supt.	•	0	0
PRS 417 OAH NI 150 R_SUBCRW Substition Construction - Electrical- Crews PRS 417 OAH NR 150 R_SUBCRW Removals - Substation PRS 420 OAH NI 150 R_SUBENG Substation Construction - Electrical- Engineration CAH NI 150 R_SUBSUP Substation Construction - Electrical- Phr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical- Phr PRS 420 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Construction S	PRS 417 OAH NI 150 R_SUBCRW Substition Construction - Electrical- Crews PRS 417 OAH NR 150 R_SUBCRW Removals - Substation PRS 420 OAH NI 150 R_SUBENG Substation Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical- Phr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical- Phr PRS 420 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Construction S	000114		£	420	¥	Z	150	R_TECSPT	Substation Construction - Electrical - Supt.	60	0	0
PRS 417 OAH NR 150 R_SUBCRW Removals - Substation PRS 420 OAH NI 150 R_SUBENG Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBPLN Substation Construction - Electrical Phr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Phr PRS 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRS 417 OAH NR 150 R_SUBCRW Removals - Substation PRS 420 OAH NI 150 R_SUBENG Substation Construction - Electrical Engr PRS 420 OAH NI 150 R_SUBPLN Substation Construction - Electrical Phr PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical Phr PRS 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	000114		RS	417	₹	Z	150	R SUBCRW	Substation Construction - Electrical- Craws	9	0	0
PRS 420 OAH NI 150 R_SUBENG Substition Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBPLN Substition Construction - Electrical- Phr PRS 420 OAH NI 150 R_SUBSUP Substition Construction - Electrical- Supv. PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRS 420 OAH NI 150 R_SUBENG Substition Construction - Electrical- Engr PRS 420 OAH NI 150 R_SUBPLN Substition Construction - Electrical- Phr PRS 420 OAH NI 150 R_SUBSUP Substition Construction - Electrical- Supv. PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	000114		FRS	417	₹	¥	150	R_SUBCRW	Removels - Substation	77	•	0
PRS 420 OAH NI 150 R_SUBPLN Substation Construction - Electrical- Physics 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical- Supv. PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRS 420 OAH NI 150 R_SUBPLN Substation Construction - Electrical- Physics 420 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	000114		£	420	¥	Z	150	R_SUBENG	Substation Construction - Electrical- Engr	16	0	0
PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical- Supv. PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRS 420 OAH NI 150 R_SUBSUP Substation Construction - Electrical- Supv. PRX 418 OAH NI 150 R_CONCRW CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	000114		PRS	420	₹	₹	150	R_SUBPLN	Substation Construction - Electrical- Phys	4	0	0
PRX 418 OAH NI 150 R_CONSUP CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRX 418 OAH NI 150 R_CONSUP CSA In-House Construction - Crew PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	000114		PRS	420	₹	Ž	150	R_SUBSUP	Substation Construction - Electrical - Supv.	₽	0	0
PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	PRX 420 OAH NI 150 R_CONSUP CSA In-House Construction - Construction S	000114		ž	418	₹	Z	150	R CONCRW	CSA In-House Construction - Crew	120	0	0
		000114		ž	420	Ŏ.	ž	150	R_CONSUP	CSA In-House Construction - Construction S	16	0	0
	1,243 0 0	P0000114									1,243	0	0
	1,243 0 0											1	

Haweien Electric Company CONFIDENTIAL UPD89PED-JUL88BUD-MSHO.PLN Version: Ju89Bud

POR00114 PBA 408 OAH NI 150	Project #	"M-Proj #	*	.Vet	*20T	# pull	# 33.	5	PY02	FY03
PBY 468 OAH N 150 PBY 468 PBY 469 PB	P0000114		8	408	₩ O	Z	150	80	0	0
PBY 400 OAH N 150 16 PBY 405 OAH N 150 125 PBY 405 OAH N 150 125 PBY 405 OAH N 150 125 PBY 405 OAH N 150 24 PBY 405 OAH N 150 150 PBY 405 OAH N	P0000114		&	804	Ø.	ž	150	*	. 0	0
PBY 400 OAH NI 150 125 PBY 405 OAH NI 150 125 PBY 406 OAH NI 150 24 PBY 417 OAH NI 150 80 PBY 417 OAH NI 150 24 PBY 420 OAH NI 150 46 PBY 420 OAH NI 150 46 PBY 420 OAH NI 150 46 PBY 420 OAH NI 150 150 PBY 420 OAH NI 150 PBY 420 OAH	P0000114		PBS	90	OAH	ž	150	16		0
PBY 405 OAH NI 150 125 PBY 405 OAH NI 150 54 PBY 405 OAH NI 150 24 PBY 417 OAH NI 150 24 PBY 417 OAH NI 150 24 PBY 417 OAH NI 150 80 PBY 417 OAH NI 150 24 PBY 420 OAH NI 150 450 PBY 420 OAH NI 150 150 PBY 420 OAH NI	P0000114		<u>¥</u> 84	9	₹	ž	150	5	0	0
PBY 405 OAH NI 150 88 PBY 408 OAH NI 150 88 PBY 417 OAH NI 150 24 PBY 417 OAH NI 150 80 PBY 844 PHE NI 150 80 PBY 845 OAH NI 150 450 PBY 845 OAH NI 150 450 PBY 845 OAH NI 150 150 PBY 845 OAH	P0000114		B B	406	OAH	Z	150	53	0	0
PBY 408 OAH NI 150 B PBY 417 OAH NI 150 24 PBY 417 OAH NI 150 40 PBY 842 PHE NI 150 80 PRI 417 OAH NI 150 80 PRI 417 OAH NI 150 80 PRI 417 OAH NI 150 80 PRI 420 OAH NI 150 24 PRI 420 OAH NI 150 24 PRI 420 OAH NI 150 450 PRI 420 OAH NI 150 150 16 PRI 420 OAH NI 150 150 16 PRI 420 OAH NI 150 150 16 PRI 420 OAH NI 150 150 16	P0000114		₽BY	50	₩ O	Ž	150	8	0	0
PBY 408 OAH N 150 12 PBY 417 OAH N 150 24 PBY 842 PHE N 150 80 PBY 842 PHE N 150 80 PBY 844 PHE N 150 80 PBY 844 PHE N 150 80 PBY 845 OAH N 150 80 PBY 845 OAH N 150 80 PBY 845 OAH N 150 24 PBY 845 OAH N 150 24 PBY 845 OAH N 150 450 PBY 845 OAH N 150 450 PBY 845 OAH N 150 450 PBY 845 OAH N 150 150 PBY 1248	P0000114		PBY	4 08	₩ O	ž	150	•	0	0
PBY 417 OAH N 150 24 PBY 842 PHE N 150 40 PRI 417 OAH N 150 80 PRI 417 OAH N 150 80 PRI 420 OAH N 150 24 PRI 420 OAH N 150 16 PRI 420 OAH N 150 450 PRI 420 OAH N 150 450 PRI 420 OAH N 150 450 PRI 420 OAH N 150 150	P0000114		₽BY	408	OAH	Z	150	12	0	0
PBY 417 OAH N 150 40 PBY 842 PHE N 150 8 PBY 844 PHE N 150 80 PRI 417 OAH N 150 80 PRI 420 OAH N 150 80 PRR 417 OAH N 150 80 PRR 420 OAH N 150 80 PRR 420 OAH N 150 24 PRR 420 OAH N 150 24 PRR 420 OAH N 150 450 PRR 420 OAH N 150 450 PRR 420 OAH N 150 450 PRR 420 OAH N 150 150 16	P0000114		₩	417	NO NH	Ž	150	75	0	0
PBY 842 PHE NI 150 8 PRI 417 OAH NI 150 80 PRI 417 OAH NI 150 80 PRI 420 OAH NI 150 80 PRR 420 OAH NI 150 80 PRR 420 OAH NI 150 80 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 150	P0000114		8	417	Ø.	Z	35	4	0	0
PBY 844 PHE NI 150 80 PRI 417 OAH NI 150 80 PRI 420 OAH NI 150 80 PRR 420 OAH NI 150 80 PRR 420 OAH NI 150 80 PRR 420 OAH NI 150 24 PRR 420 OAH NI 150 24 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120	P0000114		₩	842	¥	Z	150	∞	0	0
PRI 417 OAH NI 150 80 PRI 420 OAH NI 150 80 PRR 420 OAH NI 150 86 PRR 420 OAH NI 150 86 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 150 16	P0000114		₽8	4	¥	Z	150	•	0	0
PRI 417 OAH NI 150 8 PRR 420 OAH NI 150 80 PRR 420 OAH NI 150 80 PRR 420 OAH NI 150 84 PRR 420 OAH NI 150 86 PRR 420 OAH NI 150 86 PRR 420 OAH NI 150 86 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 150 PRR 420 OAH NI 150 150 PRX 420 OAH NI 150 150	P0000114		Ē	417	O¥+	Z	150	8	0	0
PRI 420 OAH NI 150 24 PRR 417 OAH NI 150 80 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 24 PRR 420 OAH NI 150 66 PRR 420 OAH NI 150 66 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 450 PRR 420 OAH NI 150 16 PRR 420 OAH NI 150 16 PRX 420 OAH NI 150 150 1,243	P0000114		Ē	417	O H	Z	150	•	•	0
PRR 417 OAH NI 150 80 PRR 417 OAH NI 150 16 PRR 420 OAH NI 150 24 PRR 420 OAH NI 150 8 PRS 417 OAH NI 150 450 PRS 420 OAH NI 150 460 PRS 420 OAH NI 150 46 PRS 420 OAH NI 150 4 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 120	P0000114		Ē	420	OAH O	Z	150	*	0	0
PRR 417 OAH NI 150 16 PRR 420 OAH NI 150 24 PRR 420 OAH NI 150 8 PRS 417 OAH NI 150 460 PRS 417 OAH NI 150 24 PRS 420 OAH NI 150 4 PRS 420 OAH NI 150 4 PRX 418 OAH NI 150 40 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 124	P0000114		PRR	417	₩ O	Ž	50	8	0	0
PRR 420 0AH NI 150 24 PRR 420 0AH NI 150 6 PRS 417 0AH NI 150 460 PRS 417 0AH NI 150 460 PRS 420 0AH NI 150 24 PRS 420 0AH NI 150 16 PRS 420 0AH NI 150 40 PRX 420 0AH NI 150 40 PRX 420 0AH NI 150 120 PRX 420 0AH NI 150 120 PRX 420 0AH NI 150 120	P0000114		8	417	Ø H	ž	35	\$	0	0
PRR 420 OAH NI 150 8 PRS 417 OAH NI 150 460 PRS 417 OAH NR 150 460 PRS 420 OAH NI 150 24 PRS 420 OAH NI 150 16 PRS 420 OAH NI 150 40 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120	P0000114		8	420	OAH	Z	150	7	0	0
PRR 420 OAH NI 150 6 PRS 417 OAH NR 150 450 PRS 420 OAH NI 150 16 PRS 420 OAH NI 150 16 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 40 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 16	P0000114		2	420	₹	Z	150	•	0	•
PRS 417 OAH NR 150 450 PRS 417 OAH NR 150 24 PRS 420 OAH NI 150 16 PRS 420 OAH NI 150 40 PRX 418 OAH NI 150 40 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 16	P0000114		7 8	420	₩ O	Ī	30	•	0	0
PRS 417 OAH NR 150 24 PRS 420 OAH NI 150 16 PRS 420 OAH NI 150 4 PRS 420 OAH NI 150 40 PRX 418 OAH NI 150 120 PRX 420 OAH NI 150 120 PRX 420 OAH NI 150 16	P0000114		PRS	417	₩ O	Ŧ	150	9	0	0
PRS 420 OAH NI 150 16 PRS 420 OAH NI 150 4 PRS 420 OAH NI 150 40 PRX 418 OAH NI 150 120 PRX 420 OAH NI 150 120 1,243	P0000114		8£	417	₩ O	¥	150	75	0	0
PRS 420 OAH NI 150 40 PRS 420 OAH NI 150 40 PRX 418 OAH NI 150 120 PRX 420 OAH NI 150 1543	P0000114		888	420	OAH	Z	150	9	0	0
PRS 420 OAH NI 150 40 PRX 418 OAH NI 150 120 PRX 420 OAH NI 150 1243	P0000114		PRS	8	₹ o	Ž	150	•	0	0
PRX 418 OAH NI 150 120 PRX 420 OAH NI 150 16 1,243	P0000114		PRS	420	OAH O	Z	150	\$	0	0
PRX 420 OAH NI 150 16	P0000114		¥X	418	OAH	Z	150	52	0	0
1,248	P0000114		¥	420	OAH	ž	150	9	0	0
1243 0 0	P0000114						1	1,243	0	0
						3.	•	1243		

» budget manager: "VIEW: 6-Yr Proj Labor Hour

Haweilen Electric Company CONFIDENTIAL UPDS9PED-JUL99BUD-MSHO,PLN Version: Jul99Bud

» budget manager: "VIEW: 6-Yr Proj Labor Hour

a for the	5	7	2			# 1500 COST		Total 6 Year Lbr Hour	2	2
P0000115	8	904	₩ O	Z	35	BUOCB	Drawing Control/Clerk Tvoist Surport	æ		0
P0000115	8	904	ð	ž	35	E-8	Manager - Engr. Dept - Supervise	•	• =	•
20000115	88	9	ĕ.	₹	35	B DISPLA	Distribution Planning	r y	• •	•
20000115	8	90	Ø.	Z	8	B PROTEC	Protection	2 4		•
20000115	Ě	405	₩ O	₹	\$	B_SSENG	Electrical - Design Substation (incl. Lead Engl	5 5		
P0000115	PB	\$0\$	₹	Z	35	B SUBOFT	Electrical - Drafting	3 2		
P0000115	PBY	804	Ø.	Z	35	BUOCB	Project Clerk Suncort (F. Yamane, RV)	3 «	, ,	, ,
P0000115	₽8	80	N.	Z	35	FS-B	Principal/Director - Supervise	e Ç	,	
P0000115	₩	417	₩ O	2	35	B SSENG	Electrical - Field Follow (incl as-builts)	7. 70		• •
P0000115	₽ 8	417	8	₹	35	B SUBDET	Electrical - Drafting - as-builts	1 9		
P0000115	P8√	\$	¥	Z	35	B SSENG	Electrical - Order Materials	9 00	, c	
P0000115	₽8Y	4	Ŧ	ž	35	B_SSENG	Electrical - Bid Process & Contract Mornt for a.	• « C	. 0	0
P0000115	8	417	¥	Z	50	R INSORW	Instrumentation - Tech	. 2		
20000115	æ	417	¥	Z	35	R INSENG	Instrumentation - Engineer	, cc		
P0000115	æ	8	Ø.	Z	150	RINSSUP	Instrumentation - Supy.	24	0	
P0000115	æ.	417	o F	Z	150	R_RELCRW	Relay/Testing - Tech	8	0	0
P0000115	8	417	₹	Z	35	R RELENG	Relay/Testing - Engineer	. 2	0	
20000115	8	\$	₹	2	150	R_RELSUP	Relay/Testing - Supv.	24	0	0
20000115	PR.	8	¥	Z	150	R_TECSPT	Relay - Supt.		0	0
20000115	8	420	ĕ.	₹	150	R TECSPT	Substation Construction - Electrical Suot	. «		
20000115	PRS	417	3	Z	35	R SUBCRW	Substation Construction - Electrical Craws	· \$		
P0000115	PRS	417	¥	¥	35	R_SUBCRW	Removals - Substation	77		
20000115	PRS	\$20	₹	Z	5	R SUBENG	Substation Construction - Electrical- Engr	. 45		
P0000115	PRS	8	¥	Z	150	R SUBPLN	Substation Construction - Electrical Physics	•		
90000115	PRS	420	3	Ž	150	R SUBSUP	Substation Construction - Electrical Suov	•		
20000115	ž	418	₹	Z	8	R_CONCRW	CSA In-House Construction - Crew	120	0	0
20000115	ž	\$3	8	Z	35	R_CONSUP	CSA In-House Construction - Construction S	41	0	0
P0000115									1	

Hawaijan Electric Company CONFIDENTIAL UPD99PED-LUL99BUD-MSHO;PLN Version: Jul99Bud

P0000115								
20000	æ	408	OAH O	ž	150	80	0	0
61.30	æ	4 08	OAH	ž	150	4	0	0
P0000115	88	90	OAH	Z	35	16	0	0
P0000115	<u>¥</u>	400	OAH	ž	50	5	0	0
-0000115	PB.	904	OAH	Z	3	125	0	•
P0000115	<u>\$</u>	9	OAH	ž	55	8	0	0
P0000115	PB?	804	V	ź	150	0	0	0
90000115	¥9	408	¥	z	150	12	0	0
P0000115	<u>k</u>	417	OAH O	Z	8	24	0	•
P0000115	Æ	417	Ŏ.	ž	150	\$	0	0
20000115	ě	27	¥	ž	150	80	0	0
P0000115	¥8	44	¥	Z	35	80	0	0
P0000115	8	417	₩ O	Ž	35	8	0	•
90000115	垩	417	¥	ž	55	00	0	0
90000115	Ē	8	OAH O	ž	150	75	0	0
P0000115	æ	417	₹	ž	051	8	0	0
90000115	8	417	Ø.	Z	150	16	0	0
P0000115	*	420	¥	Z	35	24	•	•
P0000115	æ	8	OAH	ž	35	80	•	0
P0000115	8	420	3	ž	35	80	0	0
P0000115	PRS	417	8	ž	35	9	0	•
P0000115	88	417	ĕ.	ž	35	34	0	0
P0000115	PRS	\$20	¥	Z	35	16	0	•
P0000115	PRS	420	3	Z	951	*	0	0
P0000115	FRS.	420	₹ o	ž	35	ę	0	•
P0000115	ž	418	ð	ž	35	120	0	•
P0000115	¥	8	₹	Z	8	5	0	0
P0000115						1,243	0	0
					\$J .			
						1,243	0	0

» budget menager: "VEW: 6-Yr Proj Labor Hour

Hawaiian Electric Compeny CONFIDENTIAL UPD99PED-LUL99BUD-MSHO;PLN Vereion: Jul99Bud

» budget manager: "VIEW: 6-Yr Proj Labor Hour

*Project #	"M-Proj #	7	.vet	**	* pui.	#	*Labor Class #	Line Kern	Total 6 Year Lbr Hour	2	FY00
P0000116		YOU	95	2	4	160	000				
		5	ş	Ş	Ē	3		Drawing Control/Clerk Typiet Support	••	0	0
F0000118		ð	4 08	OAH	Z	150	E-8	Manager - Engr. Dept Supervise	7	0	0
P0000116		PBS	90	Q H	Z	35	B DISPLN	Distribution Planning	2	c	c
P0000116		B	400	OAH	ž	8	B PROTEC	Protection	18		, ,
P0000116		8	59	OAH	ž	150	B SSENG	Electrical - Dealon Substation (Incl. Lead Engl	: \$2		, ,
P0000116		PB	505	OAH	Z	150	B SUBDET	Electrical - Draftino	2 5		, c
P0000116		PB 4	904	OAH	Z	55	BUOCB	Project Clerk Support (F. Yamana - RY)	3 ~	• •	
P0000116		6	90	A H	Z	35	FS-B	Principal/Director - Supervise	, t	• •	• •
P0000116		ě	417	Q A	Z	\$	B SSENG	Electrical - Field Follow (incl as-builts)	24	, c	
P0000116		6	417	o¥+	Z	150	B SUBDET	Electrical - Draffing - as-builts	S		, ,
P0000116		6	8	¥	Z	35	B_SSENG	Electrical - Order Materials	. •		
P0000116		¥9	1	¥	Ž	150	B SSENG	Electrical - Bid Process & Contract Mornt for s			
P0000116		æ	417	OAH	Z	150	R INSORW	Instrumentation - Tech	. 2		· c
P0000116		Ē	417	Ø.	Z	35	RINSENG	Instrumentation - Engineer	•		
P0000116		æ	420	₩ O	Ī	8	RINSSUP	Instrumentation - Supv.	77	. 0	
P0000116		X	417	OAH	Ž	150	R RELCRW	Relay/Testing - Tech	i 8 8	0	
P0000116		<u>x</u>	417	OAH	Z	150	R RELENG	Relay/Testing - Engineer	. £	•	0
P0000116		88	420	O H	Ž	150	R RELSUP	Relay/Testing - Supy	24		• =
P0000116		X	8	₽ F	Z	150	R TECSPT	Relay - Suct.			• •
P0000116		*	420	S.	Z	35	R TECSPT	Substation Construction - Electrical-Supt.) ec		, c
P0000116		PRS	417	OAH	Ž	150	R SUBCRW	Substation Construction - Electrical Crave	· •		, c
P0000116		PRS	417	₹ o	¥	150	R SUBCRW	Removets - Substation	24		
P0000116		PRB	2	OAH	Z	35	R SUBENG	Substation Construction - Electrical- Engr	- -		
P0000116		PRS	82	ð	Z	150	R SUBPLN	Substation Construction - Electrical-Pinn	•	•	
P0000116		PRS	420	§	Ī	85	R SUBSUP	Substation Construction - Electrical Surv.	. 4		
P0000116		ž	418	₹ ŏ	Ž	150	R_CONCRW	CSA In-House Construction - Crew	120		
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Hawaiian Electric Company CONFIDENTIAL UPD69PED-JUL98BUD-MSHO;PUN Version: Jul99Bud

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PROJECT IDENTIFICATION FORM

CA-IR-286 DOCKET NO. 2006-0386 ATTACHMENT 2 PAGE 1 OF 3

The Project identified below has already been established in MIMS

Project Title: Call Center ACD Project Phase I

Plant Addition Date: 2001-12

Project Number: P8950000

Commitment Date: 2001-01

(Permanent)

Primary Corporate Goal: O&M Prod

Stategic Plan Linkage: 1D - Continuous Improvemen

Impact on Goal: High

(Primary)

		Projec	ct Forecast	(Thousand	\$)		
(Attach the "V	iew - 5-Yr Pro	oj Costs by Inc	d & Cost Cat	report obtain	ed from the e	stimators' Pilla	ar file.)
Prior		54				Future	
<u>Years</u>	2000	2001 1 50	2002	2003	2004	Years	<u>Total</u>
\$0	\$25	\$891	\$0	\$0	\$0	\$0	\$916

		Assessmo	ent Factors		
Compliance	Competitive Advantage	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
15	15	50	0	24	104

Purpose/Objectives:

To replace technologically obsolete 14-year-old Automatic Call Distribution (ACD) system in order to allow:

- 1) connection to Interactive Voice response (IVR) system and digital trunking, saving expense of analog trunks,
- 2) interface Customer Information System (CIS)/ACCESS for screen pop technology,
- 3) caller ID and other display features, and
- 4) integration of workforce management software.

Scope Description:

Install modern Automatic Call Distribution (ACD) system that can support current technologies, communication protocols, and the network interfaces required of a full-featured call center. Interface ACD with the PBX, IVR, and CIS systems as well as the internet. Integrate workforce management and other related software.

INT ACCOUNTING

Note: 7 Per Blane Hurakami, opprox 80%. represents hardware cost. Fiftware is specialized stylware. Ky 10/10/00.

PROJECT IDENTIFICATION FORM

The Project identified below has already been established in MIMS

CA-IR-286 DOCKET NO. 2006-0386 ATTACHMENT 2 PAGE 2 OF 3

Resource Needs:

Various resource needs primarily from Customer Service, Telecommunications, and IS as well as outside consultant and vendors.

(See attached Pillar file - 5-Yr Proj Labor Hour report.)

NOTE: IS labor expense was added to this PIF, but not the Pillar file as instructed by Management Accounting. The increase was \$11,974 in 2001 and \$9,021 in 2002.

Justification:

- 1) Currently installed ACD will be almost 14 years old by the end of 2001. It is already technologically obsolete and is nearing the end of vendor support.
- 2) A new ACD is critical to the effective and efficient operation of the IVR system (only used for trouble calls now). This interface will eliminate the current problem of call collisions (customers talking to each other instead of HECO during peak IVR call periods) and dropped calls. The 40 second transfer delay from the IVR to a HECO rep will also be reduced significantly for the customer. The expense of the 17 Customer Service analog trunks and 12 Trouble analog trunks will be saved since the IVR will provide 96 digital trunks for these calls. Customers will also be able to call one phone number instead of two, and selected transactions will be able to be handled by the IVR 24 hours a day, 7 days a week, without personal assistance. The ACD/IVR can also link to the internet for selected transactions.
- 3) The interface with the CIS and IVR systems will allow some account information to "screen pop" to the HECO reps computer monitor which is estimated to save about 20 seconds a transaction. This will also allow the utilization of skill-based routing so that certain types of calls can be routed to selected reps saving training time and increasing customer satisfaction.
- 4) The integration of workforce management software is estimated to save at least 450-500 hours annually in the time needed for call center scheduling and the forecasting of staffing requirements.
- 5) Will be better able to leverage call center profitability by selling other products and services. Newer ACDs can provide release link trunking in order to not tie up two trunks when a call is transferred to an outside party. This will reduce our opportunity costs and increase revenues from these sources.
- 6) Customizable detailed reports will also provide data not now available or easily attainable to better manage employee productivity and improve managment decisions.
- 7) The ACD links with the IVR, CIS, and internet will also help us meet the challenges of PBR to maximize the company's revenues. Issues, Impacts, Considerations:

If the ACD is not replaced by the end of 2001 and could last another 13 years (not likely), the O&M impact is estimated to be \$7,463,000 over the period 2002-2014 to cover the analog trunks expense and additional employees needed to cover the expected call load increases. These costs will be saved with a new ACD due to the elimination of the analog trunks and the expected transfer of some of the call load to the IVR and the internet during this time period. This assumes the call center hours remain the same and the service level is maintained at 80% of the calls answered within 30 seconds.

PROJECT IDENTIFICATION FORM

The Project identified below has already been established in MIMS

CA-IR-286 DOCKET NO. 2006-0386 ATTACHMENT 2 PAGE 3 OF 3

PUC Approved: Approval Required	Not Required						
OApproved, Date of Decision & Order: Docket Number:							
O Awaiting PUC Approval, Application File							
Authorization for:	Materials Construction						
Approval Option: Authorize expenditures that are budgeted							
Submitted by:	Phone/Ext #: 5656						
Originator's Name: Teri McGraw							
Responsible Estimator: bmurakam (Pillar UserID)	Resp. Estimator Dept: Customer Service (Pillar Department Folder)						
Project Manager: Blane Murakami							
(Note: Value does not appear in MIMS or Pillar)	Date: 09/21/2000						
Paguired Approvale to Authorize a Project							
Required Approvals to Authorize a Project:							
1/21/W							
Responsible Manager Date							
Article 9/x/0							
Responsible Vice President Date							
(not required for budgeted projects \$250,000 and less)							
Edward 10/2/00							
VP, Regulatory Affairs Date (not required if PUC approval is obtained							
W live Hocaphy Alili 16-11-00							
Controller Date							

if project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

CA-IR-287

Ref: HECO T-10 (Financial Constraints).

During an informal interview on May 4, 2007, the subject of financial constraints in 2005 and 2006 was discussed. Please provide the following:

- a. Were any written documents prepared and distributed among upper management that were relied upon to conclude that HECO's (or HEI's) financial condition in 2005 was such that measures should be implemented to reduce costs and protect earnings? Please explain.
 - 1. If so, please provide a copy of any such documentation, including both summary overviews and detailed analyses.
 - 2. If not, please specifically identify and describe what information was considered as part of the planning process.
- b. Were any written documents prepared and distributed among upper management that were relied upon to conclude that HECO's (or HEI's) financial condition in <u>2006</u> was such that measures should be implemented to reduce costs and protect earnings? Please explain.
 - 1. If so, please provide a copy of any such documentation, including both summary overviews and detailed analyses.
 - 2. If not, please specifically identify and describe what information was considered as part of the planning process.
- c. Please explain how the decisions to reduce costs and protect earnings in both 2005 and 2006 was communicated throughout and implemented by the management organization.
- d. Referring to part c. above, please provide a copy of the information distributed throughout the management organization in both 2005 and 2006.

HECO Response:

As part of the budget process described in response to CA-IR-26, a pro forma income statement is prepared for management's review and approval. If the projected level of earnings is not acceptable, management looks for various ways to address the situation.

During this process, various scenarios are prepared and considered to assist with finalizing the budget.

HECO objects to providing these pro forma income statements and scenario analyses on the grounds that these internally distributed management documents are privileged and confidential and should not be provided on public policy grounds (as described below), and on the grounds that providing explanations of the underlying assumptions would be unduly burdensome.

Without waiving its objections, HECO is providing, under Amended Protective Order No. 23378 issued June 4, 2007, the following attachments, which contain information prepared as part of the budget process for 2006:

- Attached page 7 includes proforma income statement information that resulted from the budget process for 2006.
- 2. Attached page 8 shows the Operating Revenues and assumptions relative to rate relief and DSM and IRP surcharges. Under the heading, "Add'l Rate Relief", TY 2005 rate relief per Interim D&O No. 22050, Docket No. 04-0113 and the continuation of DSM shareholder's incentive and lost margins were assumed. The line items "DSM Pr Cost (O&M)" and "IRP Recovery -2005" represent the recovery of incremental DSM program costs and amortization of IRP costs and related revenue taxes through surcharges (see the bottom of page 9 for the related expense amounts included in O&M).
- 3. Attached page 9 shows O&M expenses, including the unspecified target reduction (see HECO's response to CA-IR-186). (Note that the O&M expense estimate for 2006 shown on page 9 is the same as that shown on HECO-WP-101 (A), page 7.)

The allocation of the target adjustment by Vice President is shown on page 2 of HECO's response to CA-IR-186. As described in HECO's response to CA-IR-132, this unspecified target reduction was made to reflect an assumed reduction in spending in the short run, keeping in mind that it is in the interest of its customers for management to keep earnings from falling too far. The target reduction was allocated to the process areas (and some process areas further allocated their targets to their departments) based on each process area's O&M budget adjusted for specific items such as hiring lag. Each process area was given discretion as to how to achieve the reduction, as long as safety, reliability and service were not put at risk. This unspecified target reduction consisted of two parts: (1) labor (see "Staff Adj" on page 9) and (2) non-labor (see "EPRI Refunds" and "Target Adj" on page 9) that total \$7,829,000. For process areas with 2006 year-end budget employee counts higher than both the 2005 year-end actual employee counts (see pages 9-10 of HECO's response to CA-IR-27) and 2005 test year-end employee counts (see page 1 of HECO RT-1605, Docket No. 04-0113), an adjustment was made to reduce the 2006 budget to reflect the greater of the 2005 year-end actual or 2005 test year-end. If the 2005 test year-end employee count was higher than the 2005 year-end actual employee count, an additional reduction was made assuming a hiring lag where 2006 would begin with the 2005 year-end actual employee count and the year-end count would be the 2005 test year-end employee count. For all other process areas, a labor reduction assuming a hiring lag for unanticipated vacancies was made. The non-labor portion of the unspecified target reduction was allocated based on the process area's proportion of non-labor expenses.

The subjects of financial constraints and the 2005 budget were addressed in HECO RT-1, pages 27-36, and in HECO's response to CA-IR-14. While the 2005 test year rate

case was filed in response to commitments made in agreements to extend HECO's demand-side management programs, it is also clear that the rate case would have been required due to inadequate earnings (with or without the need to incorporate lost margin and DSM cost recovery revenues in base rates), as evidenced by HECO-2301 (4.04% rate of return at present rates, i.e., without DSM surcharge recovery) and HECO-2302 (5.28% rate of return at current effective rates, i.e., with DSM surcharge recovery), compared to the rate of return of 8.66% stipulated to in the settlement.

As stated above, HECO objects to providing the pro forma income statements and scenario analyses on the grounds that these internally distributed management documents are privileged and confidential and should not be provided on public policy grounds, and on the grounds that providing explanations of the underlying assumptions would be unduly burdensome.

Budget scenarios are generated at various levels of detail varying from a proforma income statement with supporting worksheets to high level net income sensitivities due to different levels of sales, O&M, rate relief and/or return on common equity. The budget scenarios and underlying assumptions are intentionally brief in nature since Company personnel understand the context behind the drivers of the budget scenarios and underlying assumptions and it is not cost effective to spend the time to generate elaborate descriptions and explanations of the budget scenarios and underlying assumptions. If the Company is required to produce internally generated budget scenarios and assumptions at the time of rate cases, then the information will have to be generated in a fashion suitable for external publication, rather than in its present form used for internal management purposes. These

documents would require further explanations in order to be meaningful, and the preparation of such explanations would be unduly burdensome, as well as counter productive.

The budget scenarios and underlying assumptions are intended solely to be a management tool, and are not required to be submitted to management in a form to be transmitted outside the Company. If these documents became subject to review in a regulatory proceeding, their candid nature and, therefore, their value would diminish significantly in the future, and HECO's internal communication and its ability to effectively and efficiently manage would be severely hampered.

This information request basically requests virtually unlimited access to internal documents prepared in connection with the operating budget. Such a request fails to balance the Consumer Advocate's need for this information against the Company's need to manage. For example, the Federal Freedom of Information Act ("FFIA"), codified at 5 U.S.C. Section 552, and the Uniform Information Practices Act (modified), codified at H.R.S. Ch. 92F, contain broad disclosure requirements based on the public's interest in open government. However, even such broad disclosure acts provide exceptions from the broad disclosure requirements that are intended to permit the efficient and effective functioning of government. It is common in such acts to protect from disclosing pre-decisional agency memoranda and notes, and/or government records that, by their nature, must be confidential in order to avoid the frustration of a legitimate government function. This is similar to the "deliberative process privilege" recognized by the Pennsylvania Public Utility Commission with respect to its own internal staff reports. See Pennsylvania Public Utility Commission v. West Penn Power company, 73 Pa PUC 122 (July 20, 1990).

HECO also objects to disclosure of the requested information under a protective order. The value of the internal management reports will be diminished for the reasons stated above if the Company is required to provide the reports to the Consumer Advocate, even if the reports are provided pursuant to a protective order.

- b. See the response to sub-part a.
- c. Results of the budget process were communicated to the department managers and ultimately to the staff in various ways. For example, interoffice memos indicating cost reductions were sent to those responsible for the budget or meetings may be held to discuss potential cost reductions.
- d. See HECO's response to CA-IR-186.

Confidential Information
Deleted Pursuant To
Amended Protective Order No. 23378

CA-IR-287 DOCKET NO. 2006-0386 PAGE 7-9 OF 9

Pages 7-9 contain confidential company information and are being provided subject to Amended Protective Order No. 23378, dated June 4, 2007.

CA-IR-288

Ref: HECO T-10 Response to CA-IR-2, Attachment 26, page 2 (Outside Services-General).

The nonlabor input sheet for the Senior Vice President Public Affairs includes \$660,000 for outside services-general in the 2007 test year forecast for Account 921. Please provide the following:

- a. Please provide additional documentation showing how this forecast amount was quantified for inclusion in the 2007 test year forecast.
- b. Please provide comparable levels for outside services-general dating back to 2001.
- c. Please identify and describe the specific work scope anticipated for the \$660,000 outside services-general forecast amount.
- d. Referring to part c. above, how does the work scope anticipated in 2007 compare with prior years? Please explain.

HECO Response:

a. The 2007 test year forecast for outside services-general was approximately based on amounts spent in 2005 and 2006. The actual amount spent will be highly dependent upon specific issues for projects that are addressed for that particular year as well as new, existing or unexpected issues that may arise in that particular year. As set forth in HECO's response to CA-IR-2, Attachment 26, Pages 3 and 4, there are three areas Public Affairs is focusing on with respect to outside-services general. Hawaiian Electric anticipates that approximately \$300,000-\$310,000 will be spent for outside services and consultants. Please see response to subparts c and d below for a description on the types of services that will be retained. Approximately \$100,000 has been allocated for specific services which may or may not be needed on an ongoing basis but are critical to current specific projects. (While the same specific project may not require such services in the future, there may be other similar projects.) Unexpected issues may also arise during the year which the Company

will be required to address immediately. Approximately \$250,000 is allocated to support the "Community Process". This includes the Company's efforts to work with schools on the Leeward Coast that are located in impacted areas (West Oahu/Waianae Coast) and finding appropriate projects to involve them in. One example that Hawaiian Electric is actively involved with are through the film programs with the Leeward Coast high schools. Some of the goals are to help educate their communities as well as the general public on energy-related issues. The Company intends to continue its plans of creating targeted energy-related messages via special meetings, regional newspapers, and informercials/advertorials. Community Process also includes the support of funding for special needs in the impacted areas which is critical in order to maintain the relationships and ongoing communications and dialogue with residents in the impacted areas.

- b. The Senior Vice-President of Public Affairs joined the Company in the summer of 2001.
 The amounts spent and charged to outside-services general in 2001 and 2002 were nominal.
 The approximate amounts spent in 2003 through 2006 for outside services-general were as follows: 2003 \$135,000; 2004 \$407,000; 2005 \$614,000; and 2006 \$618,000.
- As set forth in Hawaiian Electric's response to CA-IR-2, HECO T-10, Attachment 26, pages 3 of 4, the forecasted amount will be used for consultants who can provide specific expertise, in particular, an outside third party viewpoint in dealing with the public, media, and impacted communities, whether it is for a specific project, or to help address specific issues whether new or existing as well as unexpected events that will need to be addressed. Specific services required for current specific projects include the facilitation of ocean energy technologies with communities and their stakeholders. Greenhouse gas is a new

legislative mandate which the utility along with others will be required to address now and in the future. Reduction on the use of fossil fuels and integrating the use of biofuels in our State is actively being addressed. Working with schools located in impacted areas to help educate people in their communities as well as the general public on energy issues is anticipated. Creating targeted messages through various media vehicles are also planned. The budget also anticipates providing funding for special needs in the impacted areas to maintain and foster relationships, dialogue and communications with the local communities.

d. The Company anticipates the work scope for 2007 will be at least comparable to prior years. Public Affairs will continue to utilize a baseline of outside services which provides the Company with specific expertise, and in particular, an outside third party viewpoint in dealing with the public, media, and specific communities whether it is for a specific project, or new, existing, or unexpected issues that may arise, as well as for overall strategic planning. In addition, the Company we will continue to be involved in facilitating discussions with communities involving critical proposed projects, new renewable technologies, and energy-related issues. Hawaiian Electric plans to continue to support funding for special needs in the impacted areas to help facilitate and foster ongoing communications and dialogue with the communities, as majority of our generating stations are located in the impacted areas. As discussed in subpart d, for the past couple of years, energy-related issues have been of extreme interest to the Legislature, the Administration, the media, and the general public. The Company anticipates that the work scope will increase as a result of this interest.

CA-IR-289

Ref: HECO T-10 Response to CA-IR-2, Attachment 26, page 3 (Outside Services-General).

Referring to Attachment 26, page 3, Item 2, an additional amount (\$100,000) was forecast for specific services that may not be needed on an ongoing basis. Please provide the following:

- a. Has the Company incurred such costs in prior years? If so, how much?
- b. Does the Company anticipate the need to incur similar costs in 2008 through 2010? Please explain.

HECO Response:

- a. Yes. The amount of costs in prior years has varied and was dependent on the issues or projects that the Company was faced with for that particular year. This would also include issues which were not anticipated. For example, in 2003, consultants were hired to assist the Company in dealing with cultural concerns and issues raised by communities around the island on potential projects on Oahu. The amount spent with respect to this specific project was approximately \$30,000.00. In 2004, specific services were not needed. In 2005, approximately \$15,000 for outside services was incurred to assist in the facilitation of community meetings for a proposed wind farm on the Leeward Coast. In 2006, approximately \$30,000 went to support local energy conferences which addressed the use of biofuels in Hawaii and the local agricultural industry's role in making it happen in the State.
- b. Hawaiian Electric anticipates that it will incur costs for consultants to address concerns raised by the community in the future. The Company cannot predict with certainty, the issues that may arise and which the Company will have to address. However, the Consumer Advocate is aware that there are many energy-related issues that have been raised by the Legislature, Administration, Commission, media, and general public, of which the Company

CA-IR-289 DOCKET NO. 2006-0386 PAGE 2 OF 2

needs to be prepared to address. For example, with the passage of legislation addressing greenhouse gas, meeting our renewable portfolio standard through more renewables on our system, addressing new energy related issues, and with increasing public interest to look at new renewable technologies (i.e., ocean energy) while recognizing the concerns of the local communities, specific services will be needed to help facilitate that process and to assist in addressing these issues for the Company.

Ref: HECO T-10 Response to CA-IR-2, Attachment 28, page 2 (Consultants).

The nonlabor input sheet for the Vice President Corporate Excellence includes \$144,000 for "Consultant-Dr. P" and \$50,000 for "Other Consultants" in the 2007 test year forecast for Account 921. Please provide the following:

- a. Please provide additional documentation showing how these forecast amounts were quantified for inclusion in the 2007 test year forecast.
- b. How does the combined \$194,000 for consulting services compare to historical levels dating back to 2001?
- c. Please separately identify and describe the specific work scope anticipated for the \$194,000 and \$50,000 consulting services.
- d. Referring to part c. above, how do the work scopes anticipated in 2007 compare with prior years? Please explain.

HECO Response:

• • • •

a. The consultant fees for the Vice President Corporate Excellence office relates to consultants for ongoing organizational, leadership, and workforce planning and consulting, research, industry comparisons and strategic planning. Since 2001, annual costs for these consulting services were as follows:

2001	\$63,000
2002	\$57,000
2003	\$69,000
2004	\$106,000
2005	\$78,000
2006	\$30,000

The actual amounts for 2006 were lower than usual because of delayed billings from the consultants. The 2007 budget amount was based on anticipated consulting work expected

for 2007 as well as approximately \$50,000 for late billings from 2006. The test year estimate will be adjusted (reduced) by \$50,000 for amounts related to the late billings for 2006.

- See response to part a regarding the actual expenses for consulting for VP Corporate
 Excellence for prior years.
- c. \$144,000: The scope of work includes ongoing organizational, leadership, and workforce planning and consulting and other related work.
 - \$50,000: The scope of work includes research, industry comparisons, strategic planning and other related work.
- d. The scope of work for 2007 was increased in light of rising fees and the Company's need to develop and execute plans anticipated to address changing business needs and objectives.

Ref: HECO T-10 Response to CA-IR-2, Attachment 17, page 4 (Corporate Costs).

The nonlabor input sheet for the President's Office includes various corporate costs in the 2007 test year forecast for Account 921. Please provide the following:

- a. Please explain the purpose of and provide additional documentation showing how each of the following forecast amounts was quantified for inclusion in the 2007 test year forecast:
 - 1. Consultant Fees (\$142,180).
 - 2. Restricted Stock (\$51,566).
 - 3. Dividend-quarterly (\$175,704).
 - 4. Board Mtg. Retainer (\$124,070).
 - 5. Investor Relation (\$303,120).
 - 6. Stock Transfer (\$307,210).
 - 7. Reporting (\$579,360).
- b. How do the individual amounts, listed in part a. above, compare to historical levels dating back to 2001?
- c. Were all of the individual amounts, listed in part a. above, included in Account 921 for purposes of the 2007 test year forecast? Please identify and describe any items specifically excluded from expense for ratemaking purposes.

HECO Response:

- a. For items 1. Consultant Fees, 4. Board Mtg. Retainer, 5. Investor Relation, 6. Stock Transfer and 7. Reporting: see HECO-1007, page 6 for the amounts actually included in the 2007 Test Year Estimate as compared to the 2007 budget amounts included in Account 921. See HECO-1007, pages 1 to 3 for the details of what comprise these categories of cost.
 - Item 2. Restricted Stock: Represents the amortization of restricted HEI stock granted to Mike May in April 2006 over the vesting period ending May 2010.

- Item 3. Dividend-quarterly: While the description on Attachment 17, page 4 of CA-IR-2 for HECO T-10 lists the item as "Dividend-quarterly", the amount of \$175,704 represents non-qualified stock option and stock appreciation rights for HECO executives. See also HECO-WP-101 (G), page 952, which shows the amount is reflected in HECO's 2007 operating budget under activity 723 "Mg Incent & Recog Pgm" Intercompany charges. This amount was adjusted out of the 2007 operating budget estimates as a budget adjustment in determining HECO's 2007 test year estimate as shown on HECO-1007, page 6.
- b. See page 3 for the comparable amounts for the individual items listed in part a. above from 2001 to 2006. Note that the amounts shown on page 3 are based on the amounts incurred by HEI in each year, and would not match the amounts actually recorded under the HECO activities, since there is a month lag in the billing and HECO records the accrual for December of each year to one activity.
- c. No. Budget adjustments were made to items 1 and 4-7 in part a. as shown on HECO-1007. The primary difference between the 2007 budget and the 2007 test year estimate shown on HECO-1007 is due to the removal of incentive compensation charges included in the labor charges to determine the test year estimates. Item 3 was also excluded in determining the test year estimates as discussed in response to part a.

HEI Charges to HECO (General Management Fees)

(in thousands of dollars)

						Per HECO-1007			
							Test Year	Acct 921	
			Act	ual			Estimate	Budget	
	2001	2002	2003	2004	2005	2006	2007	2007	
1. Consulting	78	79	127	93	101	74	86	142	
4. Board of Directors	71	60	55	96	140	108	76	124	
Investor Relations	260	285	308	295	284	248	244	303	
Stock Transfer	233	242	278	265	301	308	314	307	
7. Reporting	336	399	465	516	553	686	563	579	
Other									
2. Restricted Stock	8		8		語	34	52	52	
3. Dividend-quarterly	287	311	317	338	820	294	·	176	

Ref: HECO T-12, pages 12 & 14 (NPPC).

The referenced testimony generally identifies and briefly discusses a \$4 million change in the NPPC component identified as "Amortization of (Gain)/Loss" which has been "attributed to asset losses and losses from an increase in liabilities for active participants and retirees." Please provide the following:

- a. Please provide additional documentation from the Company's actuary supporting the 2005 actual "amortization" of \$3,495,546.
- b. Please provide additional documentation from the Company's actuary supporting the 2006 actual "amortization" of \$7,935,663.
- c. Please provide additional documentation from the Company's actuary supporting the 2007 estimate "amortization" of \$7,525,000.

HECO Response:

- a. The calculation of the actual loss amortization for 2005 and 2006, and the estimate for 2007 as provided by the actuary are included with this response as Exhibit 1.
- b. See Exhibit 1.
- c. See Exhibit 1.

CA-IR-292 DOCKET NO. 2006-0386 EXHIBIT 1 PAGE 1 0F 3

Calculation of loss amortization 01/01/2005:

		HECO	Plan Total
		(a)	(b)
1.	РВО	\$585,183,213	\$814,817,520
2.	Market related value assets	562,994,283	782,032,228
3.	Unrecog transition oblig	0	0
4.	Unrecog prior svc cost	(4,116,308)	(6,205,523)
5.	(Accrued)/Prepaid	81,085,113	107,897,980
6.	Accumulated loss: $1-2-3-4+5$	107,390,351	146,888,795
7.	10% Corridor: greater of 1 and 2		81,481,752
8.	Loss to amortize: 6 – 7		65,407,043
9.	Average future service		13.68
10.	Loss amortization: 8 / 9		4,781,217
11.	Loss amortization allocation: 10 x 6(a) / 6(b)	3,495,546	

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Calculation of loss amortization 01/01/2006:

		HECO	Plan Total
		(a)	(b)
1.	РВО	\$627,788,897	\$878,829,001
2.	Market related value assets	540,890,479	754,144,966
3.	Unrecog transition oblig	0	0
4.	Unrecog prior svc cost	(3,637,448)	(5,484,000)
5.	(Accrued)/Prepaid	82,497,451	107,741,213
6.	Accumulated loss: 1-2-3-4+5	173,033,317	237,909,248
7.	10% Corridor: greater of 1 and 2		87,882,900
8.	Loss to amortize: 6 - 7		150,026,348
9.	Average future service		13.75
10.	Loss amortization: 8 / 9		10,911,007
11.	Loss amortization allocation: 10 x 6(a) / 6(b)	7,935,663	

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Calculation of loss amortization 01/01/2007:

		HECO	Plan Total
		(a)	(b)
1.	PBO	\$636,053,728	\$893,381,384
2.	Market related value assets	538,943,328	753,706,088
3.	Unrecog transition oblig	0	0
4.	Unrecog prior svc cost	(2,841,124)	(4,291,762)
5.	(Accrued)/Prepaid	68,260,785	86,777,444
6.	Accumulated loss: 1-2-3-4+5	168,212,309	230,744,502
7.	10% Corridor: greater of 1 and 2		89,338,138
8.	Loss to amortize: 6 – 7		141,406,364
9.	Average future service		13.70
10.	Loss amortization: 8 / 9		10,321,632
11.	Loss amortization allocation: 10 x 6(a) / 6(b)	7,524,450	

Ref: HECO T-12, pages 11 & 14 (NPPC).

The referenced testimony on page 14 indicates that "the increase in the Service Cost and Interest Cost components of approximately \$4,500,000 is mainly due to an increase in active participants and retirees as well as the effects of inflation." Please provide the following:

- a. Please provide the number of active participants and retirees on which the 2005 actual service cost and interest cost was based.
- b. Please provide the number of active participants and retirees on which the 2007 estimated service cost and interest cost was based.
- c. Please quantify the portion of the increase of about \$4.5 million associated with the increase in active participants and retirees.

HECO Response:

- a. The 2005 actual service cost and interest cost was based on 1,348 active participants and
 1,116 retirees.
- The 2007 estimated service cost and interest cost was based on 1,462 active participants and
 1,147 retirees.
- c. The portion of the approximately \$4.5 million increase in cost associated solely to the increase in the number of active participants and retirees from the 2005 valuation to the 2007 valuation was not calculated by the actuary during the valuation process. Additional analysis is required to determine this amount. The actuary estimates that the increase attributable to the higher participant count is roughly \$3 million.

Ref: HECO T-12, pages 28-29 & Response to CA-IR-160 (Training).

Please provide the following information:

- a. Please describe the Voluntary Education Assistance ("VEA") program.
- b. Please provide copies of any VEA program information distributed to Company employees.
- c. Referring to Note (a) of CA-IR-160, page 2, please explain the basis for the temporary suspension of VEA from May-Dec 2003.
- d. Referring to Notes (c) and (d) of CA-IR-160, page 2, please identify and describe the key factors (e.g., specific financial constraints) that caused the Company to curtail corporate and executive training as well as external training/travel costs in 2006.
- e. Please provide documentation showing how the following 2007 forecast amounts were determined:
 - 1. VEA \$154,000.
 - 2. In-House Training \$52,700.

HECO Response:

- a. The Voluntary Education Assistance ("VEA") Program is described in HECO T-12, page 29. Additional information from the Company's General Information Manual ("GIM") and policy are provided in Exhibits 1 and 2, respectively.
- b. Employees are directed to the GIM and policy (see a above).
- c. The VEA Program was suspended per the memo provided in Exhibit 3.
- d. See response to CA-IR-287.
- 1. The 2007 budget for VEA is based on the 2005 actual amount of \$139,600 increased by 10% for tuition, fees and books. The budget was based on 2005 actuals as it closely represents the number of VEA participants and types of programs (e.g., graduate degree, undergraduate degree, etc.) expected in 2007. In addition, more non-degree courses are expected in 2007 as priority Company projects enter their final stages and require users to

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learn the new technologies and programs through external courses offered after work hours.

2. In-house training programs provide specific job-related competencies or knowledge and/or career and life skills. A breakdown of expenses is provided in Exhibit 4.

Voluntary Educational Assistnce Prog

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Voluntary Educational Assist Prog

[Home] [Up] [Forms] [Change Address] [GIM] [CBA] [MYC] [Search]

[Up] [Career Development] [Succession Planning - PRIDE] [Corporate Internship Program] [Training]
 [End-User Computing Training] [Apprenticeship Programs] [Voluntary Educational Assist Prog]
 [Senior Management Development Program] [Professional Licenses] [Dual Track Career Paths]

Hawaiian Electric Company General Information Manual Organizational Development

GIM11-7.htm; HUMAN RESOURCES/Employee Development, Issue #8, December 2003; For Internal Use Only

Voluntary Educational Assistance (VEA) Program

Introduction
Eligibility
Program Procedures
Criteria for Approval
Reimbursable Expenses
Scheduling of Courses
Taxation
Program Interpretation
Reference
Voluntary Educational Assistance Program Form

Introduction &

Hawaiian Electric offers a Voluntary Educational Assistance (VEA) Program to encourage employees to pursue educational programs outside of work hours that directly or indirectly enhance their performance on the job. The VEA is separate from in-house training programs that are held during work hours and seminars and workshops provided by outside organizations that employees attend during work hours at company expense.

This section of the GIM provides general information with respect to VEA. The actual terms of VEA are set forth in a separate document entitled, "Voluntary Educational Assistance Program for Employees of Hawaiian Electric Industries, Inc. and Participating Employers (Effective September 1, 1997)". This document is available to employees and should be referred to if there are questions with the Program. The provisions of the Program document control to the extent of any conflict with the information contained in the GIM.

Refer also to TRAINING and COMPUTER TRAINING.

Eligibility &

To be eligible for the VEA Program, an employee must attain "regular"

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Voluntary Educational Assistnce Prog

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status (see <u>EMPLOYEE STATUS/CLASSIFICATION</u>) and be actively employed with the company. Since VEA is available only to active employees, an employee is only eligible for reimbursement if the employee successfully completes an approved course, and remains an active employee during the duration of the course taken.

Program Procedures &

Approval for course or examination reimbursement must be obtained before the course or examination is taken. To apply for approval, an employee must complete a separate VEA Program Application for Educational Assistance form for each course. An employee should present the completed form(s) to his or her immediate supervisor and department manager. VEA Program Application for Educational Assistance forms may be obtained on HECO's intranet site by clicking on the Café BEST icon and searching under Forms, Top 10 forms, or department secretaries, who can request them from Workforce Staffing & Development or the respective company's Human Resources Office.

Upon completion of an approved course or examination, the employee must submit to Organizational Development a copy of receipts relating to tuition, books, and other related fees which have been paid and a copy of the employee's course or examination report showing satisfactory completion of the course or examination. A grade of C or better is required where letter grades are given. Once the documentation has been received from the employee and Organizational Development has determined that all of the requirements for reimbursement have been met, the Payroll Section will be notified, and reimbursement will be made. Notwithstanding preapproval, no reimbursement will be made unless the substantiation procedures set forth in this paragraph are followed.

There is no trust or other fund established for payment of VEA benefits. Any payments will be made from the general assets of the company. If an employee receives scholarship or tuition assistance outside of VEA, any reimbursement approved under VEA shall be reduced by the amount of the outside assistance.

Criteria for Approval &

Hawaiian Electric will review and determine in its sole discretion whether to approve an employee's VEA Program <u>Application for Educational Assistance form</u>. Approval is made on an individual basis and applies only to the exact course and completion date on the application. Hawaiian Electric will consider reimbursement approval only for courses that meet the following criteria:

- Courses related directly to an employee's specific job;
 Courses that enhance speaking, writing, or other communication skills:
- Course that expand knowledge of computers, energy, engineering, electricity generation, or business;

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Voluntary Educational Assistnce Prog

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- Courses that are a prerequisite for one of the foregoing courses;
 Courses that are part of a degree program approved by
 Workforce Staffing & Development or the respective company's
 Human Resources Office;
- Courses that are part of a planned career/skill development program (as agreed upon between supervisor and the employee); or
- Courses that are preparatory for professional registration exams.

Fees for exams may also be reimbursable upon approval.

No reimbursement is available for education that the company determines in its sole discretion is personal to the employee. Furthermore, no reimbursement is available for education that involves sports, games, or hobbies, unless such education has a reasonable relationship to the business of Hawaiian Electric or is required as part of an approved degree program.

The courses taken must be those offered by an accredited school, college, or university, or an agency or association approved by Workforce Staffing & Development or the respective company's Human Resources Office. Examples of accredited schools, colleges, and universities are:

- University of Hawaii
- University of Hawaii at Hilo
 - University of Hawaii's Community Colleges
- Chaminade University
- Hawaii Pacific University
- New York Technical Institute
- University of Phoenix
- Certain Adult Education Programs and Correspondence Schools
- Accredited Mainland Universities/Colleges offering courses locally

Approved agencies and associations would include Hawaiian Educational Council, Dale Carnegie Institute, professional engineering and accounting associations, and business organizations.

The company reserves the right to direct an employee to a less costly course if the latter is adequate for the employee's and the company's training needs. For directly job-related courses, the company will pay up to a maximum of that which would be paid for comparable courses at any of the institutions listed above.

Reimbursable Expenses &

If a course is approved for reimbursement, the following expenses will be considered for reimbursement:

tuition

textbooks

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- laboratory fees
- certain registration fees

No other expenses are reimbursable under the Program. Specifically, there shall be no reimbursement for any tools or supplies, such as computers or calculators, that an employee may retain after the course has ended. Also, meals, lodging, and transportation (including parking) expenses are not reimbursable.

Scheduling of Courses &

VEA courses, seminars, or workshops should be scheduled after normal working hours or on weekends. An exception may be made that will permit an employee to utilize all or part of a day's vacation, or the employee may be granted excused absence without pay. This is intended to deal with situations where a class begins before the end of a work day or involves a one-or two-day class. The exception is allowed provided that:

- Courses, seminars, or workshops have been judged to qualify for reimbursement;
- Similar courses, seminars, or workshops are unavailable after normal working hours;
- Being absent all or part of the day does not present a scheduling or other operational problem for the department or division;
- The vacation or excused absence without pay will be for full hours or for exempt employees for a full day; and
- Department Manager approval is obtained.

In computing the hours worked for utilizing part of a day's vacation or excused absence without pay, under no condition should a break period be included as time worked. A lunch period may be considered as time worked only if the employee has already worked a full eight hours and leaves one-half hour before the normal quitting time.

Taxation &

Each employee who receives VEA reimbursement is responsible for the income tax consequences of the reimbursement. Employment-related education creates complex tax issues. Hawaiian Electric encourages employees receiving reimbursement to consult with qualified tax advisors regarding the reimbursement. The company will make an initial determination of the taxability of the reimbursement to meet its tax reporting and withholding obligations. Please refer to the VEA document for more detailed information regarding the taxation of VEA benefits.

Program Interpretation &

This Section of the GIM is intended as informational material only. Employees should refer to the separate VEA Program document if there are questions regarding VEA. Under the VEA Program document, the

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Manager of Workforce Staffing & Development at Hawaiian Electric is authorized to interpret the provisions of VEA. Any questions about the interpretation and application of VEA shall be resolved by the Manager of Workforce Staffing & Development.

Reference &

Collective Bargaining Agreement, Section 25(14).

[What's New] [Introduction] (Organizational Chart] [Employment] [Personnel Procedures] [Employee Conduct] [Absence from Work] [Safety & Health Services] [Performance Dvipmnt System (PDS)] [Employee Compensation] [Employee Benefits] [Employee Development] [Internal Services] [Community & Gov't Relations] [Finance] [Reimbursement] [Use of Company Facilities] [Home] [Forms] [Change Address] [GIM] [CBA] [MYC] [Search]

Voluntary Educational Assistance Program for Employees of Hawaiian Electric Industries, Inc. And Participating Employers

Section 1. Purpose of Program

Hawaiian Electric Industries, Inc. ("HEI") sponsors the Voluntary Educational Assistance Program (the "Program") to encourage the employment-related education of its eligible employees and the eligible employees of Hawaiian Electric Company, Inc. ("HECO"), Hawaii Electric Light Company, Inc., Maui Electric Company, Limited, and Pacific Energy Conservation Services, Inc. (collectively with HEI, the "Participating Employers").

In accordance with the terms of this document, as it may be amended, the Participating Employers will reimburse eligible employees for part or all of the cost of education that enhances job performance or is otherwise related to the business of the Participating Employers.

The Program is not to be confused with in-house training that is held during work hours or with seminars and workshops provided by outside organizations that an employee attends during work hours at the expense of a Participating Employer. The Program is designed to provide reimbursement for courses taken outside of work hours at the initiative of eligible employees.

The Participating Employers intend the Program to meet the requirements of Section 127 of the Internal Revenue Code of 1986, as amended, (the "Code") and the requirements for working condition fringe benefits or reimbursement of job-related expenses under an accountable plan in accordance with Sections 132, 162, and 62 of the Code.

This Program document is effective January 15, 2004, and supersedes all prior versions of this program.

Section 2. Eligibility

All active, "regular" employees of the Participating Employers are eligible to participate in the Program. For purposes of the Program, an employee becomes a "regular"

i

employee after successfully completing any required probationary period. Since reimbursements are available only to active employees, an employee must start and complete an approved course while the employee is employed by a Participating Employer.

Section 3. Reimbursements

- (a) Application Procedure. Reimbursement approval for a course must be obtained before the course begins. An eligible employee must apply for approval separately for each course for which reimbursement is sought and must submit the completed application form to his or her immediate supervisor. Application is made on forms provided by HECO's Human Resources Office. Employees may obtain the application forms from their respective department secretaries.
- (b) <u>Criteria for Approval.</u> Based on an eligible employee's application for reimbursement, the Participating Employer shall determine in its sole discretion whether to grant approval. Approval is made on an individual basis and applies only to the exact course and completion date on the application. A Participating Employer will consider reimbursement approval only for courses that meet the following criteria:
 - Courses related directly to an employee's specific jobs or tasks;
 - Courses that enhance speaking, writing, or other communication skills;
 - Courses that expand knowledge of computers, energy, engineering, electricity generation, or business;
 - Courses that are a prerequisite for one of the foregoing courses:
 - Courses that are part of a degree program approved by the Participating Employer;
 - Courses that are part of a planned career/skill development
 program (as agreed upon between supervisor and the employee); or
 - Courses that are preparatory for professional registration exams.
 Fees for exams may also be reimbursable upon approval.

No reimbursement is available for education that the Participating Employer determines in its sole discretion is personal to the employee. Furthermore, no reimbursement is available for education that involves sports, games, or hobbies, unless such education has a reasonable relationship to the business of the Participating Employer or is required as part of an approved degree program.

- (c) Reimbursement Procedure. Upon completion of an approved course or examination, the employee must submit to the appropriate Human Resources Office or Personnel Department a copy of a receipt from the educational institution showing that the tuition and any reimbursable fees have been paid and a copy of the employee's course or examination report showing satisfactory completion of the course or examination. A grade of C or better is required where letter grades are given. Once the documentation has been received from the employee and the Human Resources Office or Personnel Director/Manager has determined that all of the requirements for reimbursement have been met, the appropriate Payroll Department will be notified, and the reimbursement will be made. Notwithstanding pre-approval, no reimbursement will be made unless these substantiation procedures are followed.
- (d) <u>Limitation on Reimbursement Because of Other Financial Aid.</u> If an eligible employee receives scholarship or tuition assistance outside of the Program, any reimbursement approved under the Program shall be reduced by the amount of the outside assistance. Only qualifying educational expenses paid by the eligible employee are reimbursable under the Program.
- Section 4. <u>Accredited Educational Institutions.</u> Reimbursement will be considered only for courses offered by an accredited school, college, or university, or an agency or association approved by the Participating Employers. Examples of accredited schools, colleges, and universities are:
 - University of Hawaii
 - University of Hawaii at Hilo
 - University of Hawaii's Community Colleges

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- Chaminade University
- Hawaii Pacific University
- New York Technical Institute
- Heald College
- Certain Adult Education Programs and Correspondence Schools
- Accredited mainland universities/colleges offering courses locally

Examples of approved agencies and associations include:

- Hawaii Employers Council
- Hawaiian Educational Council
- Dale Carnegie Institute
- professional engineering associations
- professional accounting associations
- professional business organizations

Section 5. Qualifying Educational Expenses. If a course is approved for reimbursement, the following expenses will be considered for reimbursement:

- tuition
- textbooks
- laboratory fees
- certain registration fees

No other expenses are reimbursable under the Program. Specifically, there shall be no reimbursement for any tools or supplies, such as computers or calculators, that an employee may retain after the course has ended. Also, meals, lodging, and transportation (including parking) expenses are not reimbursable.

Section 6. <u>Taxation.</u> Each employee who receives reimbursement under the Program is personally responsible for the income tax consequences of the reimbursement. Employment-related education creates complex tax issues. Employees receiving reimbursements under this program should consult with qualified tax advisors regarding the proper tax treatment of such

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reimbursements. The Company recognizes the complexity of the tax issues with respect to reimbursements and the difficulty in applying the tax rules to each participant's situation. The Participating Employers will make the determination whether reimbursements will be excludable or subject to taxation only for purposes of complying with their employment tax withholding obligation, but provide no advice to individual employees regarding application of this Program to their personal tax situations. The Participating Employers will apply the following guidelines in administering the Program:

- (a) <u>Income Excluded under Section 127</u>. Section 127 of the Code in its current effective form provides that all reimbursements provided under the Program are excludable from the employee's income and are not subject to income tax withholding or employment taxes, subject to the following rules:
- (i) \$5,250 Annual Limit. No more than \$5,250 is excludable from the income of an employee in any calendar year under Section 127. This limit applies to each employee with respect to educational assistance received from all employers during the year, not just the Participating Employers. Each employee receiving reimbursement under the Program is responsible for reporting to his or her Participating Employer the value of any educational assistance received from an employer other than a Participating Employer. Employees who separate from service with the Participating Employers will be provided a report on the value of any education assistance benefits received during the year up to the effective date of separation.
- (ii) <u>Graduate Courses Covered.</u> At different times in the history of Section 127, reimbursements for graduate-level education have been excluded from income. Currently, the exclusion applies to reimbursements for graduate-level courses that began on or after January 1, 2002.
- (b) Working Condition Fringe Benefit. An approved reimbursement not excludable from income under Section 127 of the Code may be excludable as a "working condition fringe benefit" under Sections 132, 162, and 62 of the Code if two requirements are met: (1) a job-related requirement and (2) an accountable expense requirement. These requirements are explained in the Code as follows:

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- (i) <u>Job-Related Requirement</u>. This first requirement is fact specific. Each situation must be reviewed on its own, based upon guidelines relating to the employment time line of each employee. Although job-related, if the course either qualifies the employee for a new trade or business or is required to meet the minimum educational requirements for a new job position, the reimbursement will not be excludable. Due to the complex tax issues that may arise, employees should consult with a qualified tax advisor to determine his or her tax reporting options.
- (A) <u>Beginning of Career.</u> Applicable Code provisions state that the costs of education to meet the minimum educational requirements for an employee's position of employment are not excludable from income. For example, if an employee is hired for a position on the condition that the employee will obtain a professional license, any reimbursement approved for courses or examinations to obtain such license are not excludable from income.
- (B) Code provisions permit an employee who has met the minimum educational requirements for his or her position to exclude or deduct, as applicable, qualifying expenses for education which maintains or improves employment skills needed by the individual, or which may be necessary to meet new requirements of the position. Employees should consult their individual tax advisor on the proper application of Code guidelines to their individual tax situations.
- (C) <u>Change in Career.</u> It is the Company's understanding that current Code rules provide that the expenses of any education undertaken by an employee to qualify for a new trade or business are not excludable from income. Employees should consult their individual tax advisor on the proper application of such Code provisions to their individual tax situations.
- (ii) Accountable Expense Requirement. For reimbursements to be excludable as a working condition fringe benefit, the reimbursements must be made under an accountable plan as defined in Section 1.62-2 of the Treasury Regulations. The accountable plan requirement is met if the employee complies with the reimbursement procedures set forth in Section 3(c) above. The Participating Employer will provide no reimbursement and no working condition fringe benefit for any approved expense unless verified by receipt(s) from the

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educational institution and satisfactory official grade report(s). If for any reason the amount reimbursed exceeds the verifiable qualified expenses, such excess must be returned to the appropriate Participating Employer.

Section 7. **No Funding.** There is no trust or fund to which employees may look for reimbursement under the Program. Approved reimbursements will be paid solely from the general assets of the Participating Employers.

Section 8. ERISA Inapplicable. The Program is intended to meet the requirements for an "unfunded scholarship program," as described in Section 2510.3-1(k) of the U.S. Department of Labor Regulations. Accordingly, the Program is not an "employee benefit plan" as defined in the Employee Retirement Income Security Act of 1974, as amended, ("ERISA"), and ERISA does not apply to the Program. No summary plan description is required. Hawaii law governs the Program.

Section 9. Reporting Requirements. Although not subject to ERISA, the Program is a fringe benefit plan, and Form 5500 may be required to be filed for the Program each year in accordance with Section 6039D of the Code.

Section 10. Future of the Plan

- (a) Right to Amend. The Participating Employers reserve the right to amend the Plan at any time or times and for any reason, either prospectively or retroactively, in whole or in part. Any such amendment shall become effective upon the signature of the HEI President or the HEI Vice President, Administration & Corporate Secretary, and one officer of HECO.
- (b) Right to Terminate. The Participating Employers have established the Program with the intention to continue it indefinitely. However, by appropriate board of directors resolutions, the Participating Employers may discontinue or terminate the Program at any time and for any reason, and similarly any Participating Employer may withdraw from the Program at any time and for any reason. Any employee enrolled in an approved course at the

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time of termination of the Program or withdrawal by his or her Participating Employer shall be reimbursed for such course in accordance with the terms of the Program.

Section 11. Administration: Interpretation of Program. The Program shall be administered jointly by the Participating Employers. The Human Resources Office of HECO is authorized to issue uniform rules and adopt forms to be used by the Participating Employers in carrying out the purposes of the Program. If questions arise concerning the interpretation of the Program, the Manager of Workforce Staffing and Development at HECO is authorized to interpret its provisions. The interpretations of HECO's Manager of Workforce Staffing and Development shall be binding on the Participating Employers and their employees.

Section 12. Miscellaneous Provisions.

- (a) <u>Exclusive Benefit; 5% Owners.</u> The Program is provided for the exclusive benefit of the employees of the Participating Employers. Any employee who acquires more than a 5% ownership interest in a Participating Employer shall not be entitled to any reimbursement under the Program.
- (b) <u>Hardship Situations.</u> If, after enrolling in an approved course, an employee is unable to complete the course because of death, disability, or similar unforeseen hardship, the employee's Participating Employer may in its sole discretion reimburse such employee or such employee's representative for qualifying educational expenses incurred upon substantiation of the employee's payment of the expenses.
- (c) <u>Notification of Employees.</u> Reasonable notification of the availability and terms of the Program must be provided to the employees of the Participating Employers. Such notification may take any form deemed reasonable by the Participating Employers, including, but not limited to, distributing copies of this document to the employees or via the HECO Intranet, referring the employees to the Program document for additional information.
- (d) <u>Employment Rights.</u> The Program is neither a contract between the Participating Employers and any employee nor an inducement for the employment of any employee. Nothing contained in the Program is intended to or shall be construed to give any

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employee the right to be retained in the service of a Participating Employer or interfere with the right of a Participating Employer to discharge any employee at any time. Nothing contained in the Program is intended or shall be construed to give any employee or category of employees any vested interest in Program benefits.

- (e) <u>Adoption by Affiliates.</u> Any affiliate of HEI may adopt the Program for its employees and thereby become a Participating Employer.
- (f) <u>Headings.</u> Paragraph and Section headings are used for convenience only and shall not be used to interpret or construe the Program.

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Section 13. Execution of Program Document

To record the adoption of the Program document, the Participating Employers have caused this document to be executed this 15th day of January, 2004.

Hawaiian Electric Industries, Inc.

By Petr C. Jewis
Its vice president administration

& CORPORATE SECRETARY

Maui Electric Company, Limited

Reinhardt

Its PRESIDENT

Hawaiian Electric Company, Inc.

By Thidush h

Hawaii Electric Light Company, Inc.

Ite PRESIDENT

Pacific Energy Conservation Services, Inc.

Sy___

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INTEROFFICE CORRESPONDENCE



Hawaiian Electric Co., Inc.

May 1, 2003

To:

HECO Officers

Neighbor Island Presidents Managers and Direct Reports

From:

Pat Wong

Subject:

(VEA) Voluntary Education Assistance Program

Recently, our Company implemented additional budget constraint guidelines in response to our challenging times. In addition to these guidelines, we will be suspending the Voluntary Education Assistance program at HECO, MECO and HELCO, effective May 1, 2003, through December 31, 2003. All applications that have been approved for course reimbursement as of April 30, 2003, will be honored. Reimbursement is still subject to the established policies and procedures outlined in the VEA program document (such as achieving a passing grade). Please do not accept applications for courses for the remainder of this year.

A list of employees with approved applications will be sent to the appropriate manager for his/her information. If you have any questions regarding HECO VEA matters, please contact Dana Martins at extension 4620. For MECO or HELCO VEA matters, please contact the appropriate Human Resources Division. Thank you for your support.

cc: T. M. May

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Refreshments and supplies for New Employee Orientation (NEO).	Participant materials for compliance training: Civil Treatment for Supervisors (\$4,560), Civil Treatment for Employees (\$3,676). Corporate training for communication courses (\$5,080), customer services courses (\$4,144), facilitation courses offered (\$3,65	One Birkman certification fee and air/hotel accommodations for one selected Workforce Staffing & Development staff member (\$4,680), three recertification webinars for six Workforce Staffing & Development certified facilitators (\$2,808), and annual subscription (\$2,078). Outside Instructor fees. (\$9,152). Facilitation certification fees for selected HECO employees to obtain facilitation certification (e.g. Achieve Global, Civil Treatment). (\$10,400).
\$600	\$22,500	\$29,200
201	201	501
PFD	E	

Act 788: Conduct Employee Training

300
\$52,30(
Total

Ref: HECO T-12, pages 33-34 (HR Suite Project).

Please provide the following information:

- a. Please confirm that the HR Suite project has now been delayed into 2008. If this cannot be confirmed, please explain.
- b. Referring to the response to part a. above, please update and revise HECO-1218 and HECO-WP-1258 accordingly.

HECO Response:

- a. The Decision and Order No. 12413 in Docket No. 2006-0003 approving the HR Suite Project was issued on May 3, 2007. The timeline for implementation has been delayed such that Phase 1 is now projected to be completed in 2008.
- b. Since project costs have not been further updated, HECO-1218 and HECO-WP-1258 remain unchanged. An adjustment to delete the amortization of the HR Suite (Phase 1) deferred costs of \$5,000 (including AFUDC) as shown on HECO-1219 from account no. 926000 "Other Benefits/Administration" category will be made at the next opportunity.
 The unamortized deferred costs related to the HR Suite project of \$2,044,000, as shown on

HECO-1017, will be removed from rate base at the next opportunity.

CA-IR-296 DOCKET NO. 2006-0386 PAGE 1 OF 1

CA-IR-296

Ref: HECO T-12, pages 46-47 & HECO-1220 (Ho'okina Awards).

According to the referenced testimony, the Ho'okina awards program financial thresholds were not met in 2005 and the program was temporarily suspended in 2006 to manage expenses due to financial constraints. Please provide the following:

- a. Please identify and describe the specific financial thresholds that were not met in 2005, in both qualitative and quantitative terms.
- b. Please identify and describe the specific financial constraints that arose in 2006, in both qualitative and quantitative terms.

HECO Response:

- a. Under the Hookina Award program the company must meet all financial earnings goals before the awards are made. The financial earnings goals are set by the Compensation Committee. For 2005, the financial earnings threshold for HECO was \$
- b. See response to CA-IR-132 regarding the financial constraints that arose in 2006.

Ref: HECO T-12, page 47, HECO T-6, page 32, & Response to CA-IR-69 (Ho'okina & Targeted Compensation Program).

The response to CA-IR-69 indicates that an "Engineering Retention Program" was approved after the 2006 budget was completed and was partially funded by suspension of the Ho'okina program. Please provide the following:

- a. Please provide a breakdown of the \$286,300 forecast for the engineering retention program by engineering position, indicating the appropriate RA.
- b. Please clarify whether the engineering retention program is in the form of a permanent increase in base engineering salaries or represents an annually renewable award.
- c. Are there any financial thresholds or other financial considerations that cause the engineering retention program to result in potentially variable annual payments?
- d. Since \$216,000 of the engineering retention program was partially funded by suspending the Ho'okina award program, please clarify whether the Ho'okina program was temporarily suspended or permanently terminated.
- e. If the response to part d. above indicates that the suspension is temporary, please identify and describe the primary factors that would cause HECO to lift the suspension.

HECO Response:

- a. The requested information includes individual salary adjustments by position and is confidential. The information will be provided as Exhibit 1 to this response pursuant to Protective Order No. 23378, dated April 23, 2007.
- b. The adjustments made as a result of the engineering retention program are a permanent increase in base engineering salaries.
- c. There are no financial thresholds or considerations that would drive variable annual payments. As stated in part b above, this program was designed to provide permanent salary adjustments for eligible recipients.
- d. The Ho'okina program has been terminated.
- e. Not applicable.

Confidential Information Deleted Pursuant to Protective Order No. 23378

CA-IR-297 DOCKET NO. 2006-0386 EXHIBIT 1 PAGES 1-5 OF 5

Exhibit 1 contains confidential information and is being provided pursuant to Protective Order No. 23378, issued on April 23, 2007.

Ref: HECO-1206 (Long Term Disability).

Please provide supporting documentation showing the derivation of the average merit and bargaining unit salaries of \$76,598 and \$59,872, respectively.

HECO Response:

The average merit salaries and bargaining unit wages of \$76,598 and \$59,872, respectively that were used to calculate long term disability premiums in HECO-1206 were derived from a data file of annual wages and salaries as of August 1, 2006. This is a correction to HECO T-12, pages 25-26 which refers to annual wages and salaries as of September 1, 2006.

The calculation of long term disability premiums shown on HECO-1206 has been updated based on the average merit and bargaining unit salaries as of January 1, 2007, revised number of employees for the test year and a revised estimate of 2007 payments for claims still open from the partially self insured portion of the insurance contract in effect prior to January 1, 2003. The updated HECO-1206 is provided in Attachment 1. The January 1, 2007, salaries and wages were adjusted by 3.5% effective May 1, 2007 for merit employees and effective November 1, 2007 for bargaining unit employees. The data file that contains the salaries and wages of merit and bargaining unit employees is confidential and will be provided in Attachment 2, subject to Amended Protective Order No. 23378, dated June 4, 2007.

In addition, estimates of other employee benefits for the test year were updated to reflect the January 1, 2007 enrollment, actual premium rates for life insurance, and updated number of covered employees for the test year. The average number of covered employees as updated is provided in the response to CA-IR-302, page 7. The updated attachments are provided as follows:

Attachment 3 - HECO-1209 FlexPlan Credits Less Prices

CA-IR-298 DOCKET NO. 2006-0386 PAGE 2 OF 2

Attachment 4 – HECO-1211 Group Medical Plan

Attachment 5 – HECO-1212 Group Dental Plan

Attachment 6 – HECO-1213 Group Vision Plan

Attachment 7 – HECO-1217 Group Life Insurance Plan

CA-IR-298 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 1 OF 1

HECO-1206 DOCKET NO. 2006-0386 PAGE 1 OF 1 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. CALCULATION OF LONG TERM DISABILITY

2007

					MERIT		BU		TOTAL
Average Monthly Salary for	or January	2007	Enrollment		\$6,383		\$5,073 (1)		
270	pr; BU Wages: Jan - (Oct		X	4	×	10		
					\$25,532		\$50,730		
					\$ 6,383		\$5,073		
Salary/Wage Adjust	ment: Merit-5/1/07; BI	J-11/1/07		X	1.0350	X	1.0350		
					\$6,606		\$5,251		
Merit Salary: May-D	ec; BU Wages: Nov-D)ec		X	8		2		
					\$52,848		\$10,502		
Projected Annual Comper	nsation				\$78,380		\$61,232		
Projected No. of Me	rit and BU Employees	1		×	745	х	808 ⁽²⁾		
Projected Annual Covered	Compensation for	2007			\$58,393,100		\$49,475,456		
2007	Premium rate per \$100	BU	\$0.37						
	Compensation	MERIT	\$0.48	х	\$0.0048	X	\$0.0037		
					\$280,287		\$183,059		\$463,346
						ASA admin	fee plus banking fees	+	\$5,600
						Annual Pren	nium + Admin fees		\$468,946
Plus Claims	(incurred as of	04/30/07	& annualize	ed)				+	\$42,000
						2007	Forecast		\$510,946
						780 PHE NE	NPFZZZZZ 509		\$510,946

Source:

(1) - See CA-IR-298, Attachment 2(2) - See CA-IR-302, Page 7

No. of Merit Employees 47.98% No. of BU Employees 52.02% Confidential Information
Deleted Pursuant To
Amended Protective Order No. 23378

CA-IR-298 DOCKET NO. 2006-0386 ATTACHMENT 2 PAGES 1-31 OF 31

Attachment 2 contains confidential information and is being provided subject to

Amended Protective Order No. 23378, dated June 4, 2007.

CA-IR-298 DOCKET NO. 2006-0386 ATTACHMENT 3 PAGE 1 OF 1

HECO-1209 DOCKET NO. 2006-0386 PAGE 1 OF 1 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Projected FlexPlan & Premium Expense 2007

Far	×11.	 -4

CREDITS					as of	Emp			
Total Credits \$2,955,658	CR	REDITS	PRICES				Amount		CR - PR
Total Credits \$2,955,658	Racin	¢2 517 351							
PPP									
PPP	Total Credit	ts \$2.955.658							
S. Parent Couple 6.7% 104.1 \$201.021 Family 20.5% 318.4 \$660.922 HPH Plus Single 11.3% 175.5 \$285.068 S. Parent 3.7% 57.5 \$100.036 S. Parent 19.8% 307.5 \$638,296 SUBTOTAL HMSA \$2,424,421 Kaiser Single 4.1% 63.7 \$103,469 S. Parent 0.5% 7.8 \$13,570 Couple 2.8% 43.5 \$34,000 Family 5.2% 80.8 \$157,721 \$368,760 Vision Single 26.0% 403.8 \$26,651 Couple 16.3% 253.1 \$18,223 Family 51.9% 806.0 \$58,032 \$102,906 \$2,896,087 \$778 PHE NE NPFZZZZZZ 900 Major Care Single 25.5% 396.0 \$39,061 \$121,547 \$SUBTOTAL DENTAL \$3.9% 837.1 \$121,547 \$SUBTOTAL LIFE INSURANCE \$371,028 Supplemental Life \$410,520 Sy81,548 \$778 PHE NE NPFZZZZZZ 900 AD&D Dependent Life \$50,347 \$778 PHE NE NPFZZZZZZ 900 AD&D AD&D \$154,450 \$778 PHE NE NPFZZZZZZ 900 AD&D									
S. Parent Couple 6.7% 104.1 \$201.021 Family 20.5% 318.4 \$660.922 HPH Plus Single 11.3% 175.5 \$285.068 S. Parent 3.7% 57.5 \$100.036 S. Parent 19.8% 307.5 \$638,296 SUBTOTAL HMSA \$2,424,421 Kaiser Single 4.1% 63.7 \$103,469 S. Parent 0.5% 7.8 \$13,570 Couple 2.8% 43.5 \$34,000 Family 5.2% 80.8 \$157,721 \$368,760 Vision Single 26.0% 403.8 \$26,651 Couple 16.3% 253.1 \$18,223 Family 51.9% 806.0 \$58,032 \$102,906 \$2,896,087 \$778 PHE NE NPFZZZZZZ 900 Major Care Single 25.5% 396.0 \$39,061 \$121,547 \$SUBTOTAL DENTAL \$3.9% 837.1 \$121,547 \$SUBTOTAL LIFE INSURANCE \$371,028 Supplemental Life \$410,520 Sy81,548 \$778 PHE NE NPFZZZZZZ 900 AD&D Dependent Life \$50,347 \$778 PHE NE NPFZZZZZZ 900 AD&D AD&D \$154,450 \$778 PHE NE NPFZZZZZZ 900 AD&D			ppp	Single	10.7%	166.2	\$269 962		
Couple Family 20.5% 318.4 \$660,922									
Family 20.5% 318.4 \$660,922									
S. Parent Couple 6.9% 107.2 \$207,007 \$207,007 \$207,007 \$307.5 \$3638,296 \$2,424,421 \$2,42									
S. Parent Couple 6.9% 107.2 \$207,007 \$207,007 \$207,007 \$307.5 \$3638,296 \$2,424,421 \$2,42			HPH Plus	Single	11.3%	175.5	\$285.068		
Couple Family									
Subtotal HMSA Subtotal HMS									
Naiser Single S									
S. Parent Couple 2.8% 43.5 \$84,000 Family 5.2% 80.8 \$157,721 \$368,760 \$\$\$ Vision Single 26.0% 403.8 \$26,651 Couple 16.3% 253.1 \$18,223 Family 51.9% 806.0 \$558,032 \$\$\$\$\$102,906 \$\$\$\$2,896,087 \$\$\$\$\$778 PHE NE NPFZZZZZ 900 \$			SUBTOTAL HMS	:A			\$2,424,421		
S. Parent Couple 2.8% 43.5 \$84,000 Family 5.2% 80.8 \$157,721 \$368,760 \$\$\$ Vision Single 26.0% 403.8 \$26,651 Couple 16.3% 253.1 \$18,223 Family 51.9% 806.0 \$558,032 \$\$\$\$\$102,906 \$\$\$\$2,896,087 \$\$\$\$\$778 PHE NE NPFZZZZZ 900 \$			Kaiser	Single	4.1%	63.7	\$103,469		
Family 5.2% 80.8 \$167,721 \$368,760									
Vision Single 26.0% 403.8 \$26,651				Couple	2.8%	43.5	\$84,000		
Vision Single 26.0% 403.8 \$26,651				Family	5.2%	80.8	\$167,721		
Couple Family 51.9% 806.0 \$58,032 \$102,906 \$2,896,087 778 PHE NE NPFZZZZZ 900 \$17.8% 276.4 \$33,699 Family 53.9% 837.1 \$121,547 \$194,307 778 PHE NE NPFZZZZZZ 900 \$2371,028 \$371,028 \$410,520 \$410,520 \$410,520 \$781,548 778 PHE NE NPFZZZZZZ 900 \$102,000				Oktoverso/Malicia 🕶		20-20-00-0			
Couple Family 51.9% 806.0 \$58,032 \$102,906 \$2,896,087 778 PHE NE NPFZZZZZ 900 \$17.8% 276.4 \$33,699 Family 53.9% 837.1 \$121,547 \$194,307 778 PHE NE NPFZZZZZZ 900 \$2371,028 \$371,028 \$410,520 \$410,520 \$410,520 \$781,548 778 PHE NE NPFZZZZZZ 900 \$102,000			Vision	Single	26.0%	403.8	\$26.651		
Family 51.9% 806.0 \$58,032 \$102,906 \$2,896,087 778 PHE NE NPFZZZZZ 900 \$102,906 \$2,896,087 778 PHE NE NPFZZZZZ 900 \$102,906 \$2,896,087 778 PHE NE NPFZZZZZ 900 \$10,000									
Major Care Single 25.5% 396.0 \$39,061 \$33,699 Family 53.9% 837.1 \$121,547 \$194,307 \$778 PHE NE NPFZZZZZ 900									
Couple Family 17.8% 53.9% 276.4 \$33,699 \$121,547 SUBTOTAL DENTAL \$194,307 778 PHE NE NPFZZZZZ 900 Basic Life Supplemental Life Supplemental Life Supplemental Life Supplemental Life \$410,520 \$781,548 778 PHE NE NPFZZZZZ 900 Dependent Life Supplemental Life Suppleme				(*************************************				\$2,896,087	778 PHE NE NPFZZZZZ 900
Couple Family 17.8% 53.9% 276.4 \$33,699 \$121,547 SUBTOTAL DENTAL \$194,307 778 PHE NE NPFZZZZZ 900 Basic Life Supplemental Life Supplemental Life Supplemental Life Supplemental Life \$410,520 \$781,548 778 PHE NE NPFZZZZZ 900 Dependent Life Supplemental Life Suppleme			Major Cara	Single	25 5%	308.0	\$ 30 061		
Family 53.9% 837.1 \$121,547 SUBTOTAL DENTAL \$194,307 778 PHE NE NPFZZZZZ 900 Basic Life \$371,028 \$371,028 Supplemental Life \$410,520 . SUBTOTAL LIFE INSURANCE \$781,548 778 PHE NE NPFZZZZZ 900 Dependent Life \$50,347 778 PHE NE NPFZZZZZ 900 AD&D \$154,450 778 PHE NE NPFZZZZZ 900			Major Care						
SUBTOTAL DENTAL \$194,307 778 PHE NE NPFZZZZZ 900 Basic Life \$371,028 Supplemental Life \$410,520 SUBTOTAL LIFE INSURANCE \$781,548 Dependent Life \$50,347 AD&D \$154,450 778 PHE NE NPFZZZZZ 900									
Supplemental Life \$410,520 SUBTOTAL LIFE INSURANCE \$781,548 778 PHE NE NPFZZZZZ 900 Dependent Life \$50,347 778 PHE NE NPFZZZZZ 900 AD&D \$154,450 778 PHE NE NPFZZZZZ 900			SUBTOTAL DEN	No. and Advantage Control of the Con			*		778 PHE NE NPFZZZZZ 900
Supplemental Life \$410,520 SUBTOTAL LIFE INSURANCE \$781,548 778 PHE NE NPFZZZZZ 900 Dependent Life \$50,347 778 PHE NE NPFZZZZZ 900 AD&D \$154,450 778 PHE NE NPFZZZZZ 900			Basic Life				\$371 028		
SUBTOTAL LIFE INSURANCE \$781,548 778 PHE NE NPFZZZZZ 900 Dependent Life \$50,347 778 PHE NE NPFZZZZZ 900 AD&D \$154,450 778 PHE NE NPFZZZZZZ 900				ĭ					2
AD&D \$154,450 778 PHE NE NPFZZZZZ 900			PART AND THE PART OF THE PART						778 PHE NE NPFZZZZZ 900
AD&D \$154,450 778 PHE NE NPFZZZZZ 900									
			Dependent Life				\$50,347		778 PHE NE NPFZZZZZ 900
Total Prices \$4,076,739			AD&D				\$154,450		778 PHE NE NPFZZZZZ 900
					Total Prices		\$4,076,739		

Total Credits - Prices

(\$1,121,081)

CA-IR-298 DOCKET NO. 2006-0386 ATTACHMENT 4 PAGE 1 OF 1

HECO-1211 DOCKET NO. 2006-0386 PAGE 1 OF 1 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Calculation of Medical Expense 2007

		1	2	3		4 NTHLY	5
PLAN	COVERAGE	% OF PARTICIPATION 1/1/2007	PROJECTED PARTICIPATION 2007	2007 MONTHLY PREMIUM RATES	FOR PART	EMIUM 2007 ICIPATION 2 x 3)	2007 ANNUAL PREMIUM
PPP (HMSA)	Single S. Parent Couple Family	10.7% 2.3% 6.7% 20.5%	166.2 35.7 104.1 318.4	\$210.41 \$422.22 \$508.10 \$548.71		\$34,970 \$15,073 \$52,893 \$174,709 \$277,645	\$419,640 \$180,876 \$634,716 \$2,096,508 \$3,331,740
HPH Plus (HMSA)	Single S. Parent Couple Family	11.3% 3.7% 6.9% 19.8%	175.5 57.5 107.2 307.5	\$249.77 \$482.46 \$580.58 \$631.55		\$43,835 \$27,741 \$62,238 \$194,202 \$328,016	\$526,020 \$332,892 \$746,856 \$2,330,424 \$3,936,192
Kaiser	Single S. Parent Couple Family	4.1% 0.5% 2.8% 5.2%	63.7 7.8 43.5 80.8	\$253.31 \$486.35 \$585.15 \$638.34	***************************************	\$16,136 \$3,794 \$25,454 \$51,578 \$96,962	\$193,632 \$45,528 \$305,448 \$618,936 \$1,163,544
Waive		5.5%	85.1				
		100.0%	1,553			\$702,623	\$8,431,476
		7	78 PHE NE NPFZZZZZ 50	99	TOTAL	HMSA	\$7,267,932
		7	78 PHE NE NPFZZZZZ 50	99	TOTAL	Kaiser	\$1,163,544

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HECO-1212 DOCKET NO. 2006-0386 PAGE 1 OF 1 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Calculation of Dental Expense 2007

		1	2	3	4	5
PLAN	COVERAGE	% OF PARTICIPATION 1/1/2007	PROJECTED PARTICIPATION 2007	2007 MONTHLY PREMIUM RATES	MONTHLY PREMIUM FOR 2007 PARTICIPATION (2 x 3)	2007 PROJECTED ANNUAL PREMIUM
					4	
Major Care	Single	25.5%	396.0	\$31.29	\$12,391	\$148,692
(HDS)	2 Party	17.8%	276.4	\$62.56	\$17,292	\$207,504
	Family	53.9%	837.1	\$89.52	\$74,937	\$899,244
					\$104,620	\$1,255,440
					\$209,240	
Waive		2.8%	43.5			compared to the second
		100.0%	1,553		\$209,240	\$1,255,440

778 PHE NE NPFZZZZZ 509

TOTAL

\$1,255,440

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HECO-1213 DOCKET NO. 2006-0386 PAGE 1 OF 1 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Calculation of Vision Expense 2007

		1	2	3	4 MONTHLY	5
PLAN	COVERAGE	% OF PARTICIPATION 1/1/2007	PROJECTED PARTICIPATION 2007	2007 MONTHLY PREMIUM RATES	PREMIUM FOR 2007 PARTICIPATION (2 x 3)	2007 PROJECTED ANNUAL PREMIUM
VISION	Single	26.0%	403.8	\$5.08	\$2,051	\$24,612
(VSP)	Couple	16.3%	253.1	\$10.15	\$2,569	\$30,828
	Family	51.9%	806.0	\$14.73	\$11,872	\$142,464
Waive		5.8%	90.1			
		100.0%	1,553		\$16,492	\$197,904

778 PHE NE NPFZZZZZ 509

TOTAL

\$197,904

CA-IR-298 DOCKET NO. 2006-0386 ATTACHMENT 7 PAGE 1 OF 6

HECO-1217 DOCKET NO. 2006-0386 PAGE 1 OF 6 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Summary of Group Life Insurance Premiums - Basic Coverage 2007

Basic Coverage
Merit = 2 x annual comp
Exec = 2 x annual comp
BU = 1-1/2 x annual comp

	а	b	с 2007	d	e	f 2007	9	h
	Coverage	Basic Coverage	Average Annual Compensation	% of Participation 1/1/2007	2007 Projected Participation	Basic Coverage Amount (b x c x e)	Monthly Premium (\$.20/1000 x f)	2007 Annual Premium (g x 12)
Basic Life			3					
BU	1/2 x annual comp	0.5	\$61,666	4.46%	69.3	\$2,136,727	\$427	\$5,124
	1-1/2 x annual comp	1.5	\$61,666	5.03%	78.1	\$7,224,172	\$1,445	\$17,340
	2-1/2 x annual comp	1.5	\$61,666	4.25%	66.0	\$6,104,934	\$1,221	\$14,652
	3-1/5 x annual comp	1.5	\$61,666	34.54%	536.4	\$49,616,464	\$9,923	\$119,076
	\$50,000	\$50,000		3.75%	58.2	\$2,910,000	\$582	\$6,984
					808	\$67,992,297	\$13,598	\$163,176
EXEC	Waive	0	\$151,969	0.43%	6.7	\$0	\$0	\$0
	1-1/2 x annual comp	1.5	\$151,969	0.92%	14.3	\$3,259,735	\$652	\$7,824
	2-1/2 x annual comp	2	\$151,969	0.28%	4.3	\$1,306,933	\$261	\$3,132
	3-1/5 x annual comp	2	\$151,969	0.64%	9.9	\$3,008,986	\$602	\$7,224
	\$50,000	\$50,000		0.35%	5.4	\$270,000	\$54	\$648
	Max Benefit	\$750,000		0.07%	1.1	\$825,000	\$165	\$1,980
					42	\$8,670,654	\$1,734	\$20,808
MERIT	1/2 x annual comp	0.5	\$71,634	6.72%	104.4	\$3,739,295	\$748	\$8,976
	1-1/2 x annual comp	1.5	\$71,634	8.56%	132.9	\$14,280,238	\$2,856	\$34,272
	2-1/2 x annual comp	2	\$71,634	5.31%	82.5	\$11,819,610	\$2,364	\$28,368
	3-1/5 x annual comp	2	\$71,634	19.96%	310.0	\$44,413,080	\$8,883	\$106,596
	\$50,000	\$50,000		4.74%	73.6	\$3,680,000	\$736	\$8,832
				375	703	\$77,932,223	\$15,587	\$187,044
200	07 Projected Basic Group	Life Premium	s		1553	\$154,595,174	\$30,919	\$371,028

Basic Life Premiums \$371,028
Supplemental Life Premiums \$410,520
Dependent Life Premiums \$50,347
Accidental Death Premiums \$154,450

778 PHE NE NPFZZZZZ 509 \$986,345

CA-IR-298 **DOCKET NO. 2006-0386 ATTACHMENT 7** PAGE 2 OF 6

HECO-1217 **DOCKET NO. 2006-0386** PAGE 2 OF 6 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Calculation of Group Life Insurance - Supplemental Coverage Premiums

Total Coverage = 2-1/2 x annual comp

Basic Coverage

Supplemental Coverage* 1/2 x annual comp Merit 2 x annual comp Exec 2 x annual comp 1/2 x annual comp BU 1-1/2 x annual comp 1 x annual comp

а		b	C 2007	d	e	f 2007	g	h
Supplemental Coverage*	Age	Monthly Rate Per \$1000	Average Annual Compensation	% of Participation 1/1/2007	2007 Projected Participation	Supplemental Coverage Amount (a x c x d)	Monthly Premium (b/\$1000 x f)	2007 Annual Premium (g x 12)
1/2 x annual co	mp							
MERIT	0-29	0.064	\$71,634	0.21%	3.3	\$118,196	\$8	\$96
	30-34	0.072	\$71,634	0.21%	3.3	\$118,196	\$9	\$108
	35-39	0.119	\$71,634	0.42%	6.5	\$232,811	\$28	\$336
	40-44	0.159	\$71,634	1.20%	18.6	\$666,196	\$106	\$1,272
	45-49	0.230	\$71,634	0.64%	9.9	\$354,588	\$82	\$984
	50-54	0.404	\$71,634	0.78%	12.1	\$433,386	\$175	\$2,100
	55-59	0.651	\$71,634	1.27%	19.7	\$705,595	\$459	\$5,508
	60-64	1.100	\$71,634	0.57%	8.9	\$318,771	\$351	\$4,212
	65+	2.062	\$71,634	0.00%	0.0	\$0	\$0	\$0
					82.3	\$2,947,739	\$1,218	\$14,616
EXEC	0-29	0.064	\$151,969	0.00%	0.0	\$0	\$0	\$0
	30-34	0.072	\$151,969	0.00%	0.0	\$0	\$0	\$0
	35-39	0.119	\$151,969	0.00%	0.0	\$0	\$0	\$0
	40-44	0.159	\$151,969	0.00%	0.0	\$0	\$0	\$0
	45-49	0.230	\$151,969	0.00%	0.0	\$0	\$0	\$0
	50-54	0.404	\$151,969	0.00%	0.0	\$0	\$0	\$0
	55-59	0.651	\$151,969	0.00%	0.0	\$0	\$0	\$0
	60-64	1.100	\$151,969	0.21%	3.3	\$250,749	\$276	\$3.312
	65+	2.062	\$151,969	0.07%	1.1	\$83,583	\$172	\$2,064
					4.4	\$334,332	\$448	\$5,376
1 x annual com	200	0.004	004.000	0.000		2005 101	A.=	2004
BU	0-29	0.064	\$61,666	0.28%	4.3	\$265,164	\$17	\$204
	30-34	0.072	\$61,666	0.57%	8.9	\$548,827	\$40	\$480
	35-39	0.119	\$61,666	0.35%	5.4	\$332,996	\$40	\$480
	40-44	0.159	\$61,666	0.78%	12.1	\$746,159	\$119	\$1,428
	45-49	0.230	\$61,666	0.85%	13.2	\$813,991	\$187	\$2,244
	50-54	0.404	\$61,666	0.85%	13.2	\$813,991	\$329	\$3,948
	55-59	0.651	\$61,666	0.21%	3.3	\$203,498	\$132	\$1,584
	60-64	1.100	\$61,666	0.28%	4.3	\$265,164	\$292	\$3,504
	65+	2.062	\$61,666	0.07%	1.1	\$67,833	\$140	\$1,680
					65.8	\$4,057,623	\$1,296	\$15,552
Total Suppleme	ntal Prer	nium for 2-1/	2 x annual comp	coverage	153	\$7,339,694	\$2,962	\$35,544

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HECO-1217 DOCKET NO. 2006-0386 PAGE 3 OF 6 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Calculation of Group Life Insurance - Supplemental Coverage Premiums 2007

Total Coverage = 3-1/2 x annual comp

 Basic Coverage
 Supplemental Coverage*

 Merit
 2 x annual comp
 1-1/2 x annual comp

 Exec
 2 x annual comp
 1-1/2 x annual comp

 BU
 1-1/2 x annual comp
 2 x annual comp

а		b	C 2007	d	е	f 2007	g	h
Supplemental Coverage*	Age	Monthly Rate Per \$1000	Average Annual Compensation	% of Participation 1/1/2007	2007 Projected Participation	Supplemental Coverage Amount (a x c x d)	Monthly Premium (b/\$1000 x f)	2007 Annual Premium (g x 12)
1-1/2 x annual c	omp							
MERIT	0-29	0.064	\$71,634	0.07%	1	\$107,451	\$7	\$84
	30-34	0.072	\$71,634	0.50%	8	\$859,608	\$62	\$744
	35-39	0.119	\$71,634	2.48%	39	\$4,190,589	\$499	\$5,988
	40-44	0.159	\$71,634	4.03%	63	\$6,769,413	\$1,076	\$12,912
	45-49	0.230	\$71,634	5.59%	87	\$9,348,237	\$2,150	\$25,800
	50-54	0.404	\$71,634	3.82%	59	\$6,339,609	\$2,561	\$30,732
	55-59	0.651	\$71,634	2.76%	43	\$4,620,393	\$3,008	\$36,096
	60-64	1,100	\$71,634	0.64%	10	\$1,074,510	\$1,182	\$14,184
	65+	2.062	\$71,634	0.07%	1	\$107,451	\$222	\$2,664
			2		311	\$33,417,261	\$10,767	\$129,204
EXEC	0-29	0.064	\$151,969	0.00%	0	\$0	\$0	\$0
	30-34	0.072	\$151,969	0.00%	0	\$0	\$0	\$0
	35-39	0.119	\$151,969	0.00%	0	\$0	\$0	\$0
	40-44	0.159	\$151,969	0.14%	2	\$455,907	\$72	\$864
	45-49	0.230	\$151,969	0.21%	3	\$683,861	\$157	\$1,884
	50-54	0.404	\$151,969	0.14%	2	\$455,907	\$184	\$2,208
	55-59	0.651	\$151,969	0.14%	2	\$455,907	\$297	\$3.564
	60-64	1.100	\$151,969	0.00%	0	\$0	\$0	\$0
	65+	2.062	\$151,969	0.00%	0	\$0	\$0	\$0
					9	\$2,051,582	\$710	\$8,520
2 x annual com	p							
BU	0-29	0.064	\$61,666	0.85%	13	\$1,603,316	\$103	\$1,236
	30-34	0.072	\$61,666	2.12%	33	\$4,069,956	\$293	\$3,516
	35-39	0.119	\$61,666	5.52%	86	\$10,606,552	\$1,262	\$15,144
	40-44	0.159	\$61,666	8.14%	126	\$15,539,832	\$2,471	\$29,652
	45-49	0.230	\$61,666	7.93%	123	\$15,169,836	\$3,489	\$41,868
	50-54	0.404	\$61,666	5.45%	85	\$10,483,220	\$4,235	\$50,820
	55-59	0.651	\$61,666	2.97%	46	\$5,673,272	\$3,693	\$44.316
	60-64	1.100	\$61,666	1.13%	18	\$2,219,976	\$2,442	\$29,304
	65+	2.062	\$61,666	0.42%	7	\$863,324	\$1,780	\$21,360
			27 20 30.2 10		537	\$66,229,284	\$19,768	\$237,216
Total Supplemen	ntal Prer	nium for 3-1/	2 x annual comp	coverage	857	\$101,698,127	\$31,245	\$374,940
				Name (no. 1997)	ga razan		SALAS SISSE	
				BU	603	\$70,286,907	\$21,064	\$252,768
				MERIT	393	\$36,365,000	\$11,985	\$143,820
Tatal Consister	stat Dan-	nium for 1 42	30040	EXEC	13	\$2,385,914	\$1,158	\$13,896
Total Supplementimes annual con			C Q 3-1/2		1009	\$109,037,821	\$34,207	\$410,484

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HECO-1217 DOCKET NO. 2006-0386 PAGE 4 OF 6 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc. Calculation of Group Life Insurance - Supplemental for \$50,000 Coverage* 2007

		а	b 2007	С	đ	e 2007	f	g
	Age	Monthly Rate Per \$1000	Average Supplemental Coverage	% of Participation 1/1/2007	2007 Projected Participation	Supplemental Coverage Amount (b x c)	Monthly Premium (a/\$1000 x e)	2007 Annual Premium (f x 12)
BU	0-29	0.064	\$5,000	0.07%	1.1	\$5,500	\$0	\$0
	30-34		\$5,000	0.14%	2.2	\$11,000	\$1	\$12
	35-39		\$5,000	0.00%	0.0	\$0	\$0	\$0
	40-44		\$5,000	0.00%	0.0	\$0	\$0	\$0
	45-49	0.77 (C. 10)	\$5,000	0.00%	0.0	\$0	\$0	\$0
	50-54	0.404	\$5,000	0.07%	1.1	\$5,500	\$2	\$24
	55-59	0.651	\$5,000	0.00%	0.0	\$0	\$0	\$0
	60-64	1.100	\$5,000	0.00%	0.0	\$0	\$0	\$0
	65+	2.062	\$5,000	0.00%	0.0	\$0	\$0	\$0
			(7 10)		4.4	\$22,000	\$3	\$36
MERIT	0-29	0.064	\$0	0.00%	0.0	\$0	\$0	\$0
	30-34	0.072	\$0	0.00%	0.0	\$0	\$0	\$0
	35-39	0.119	\$0	0.00%	0.0	\$0	\$0	\$0
	40-44	0.159	\$0	0.00%	0.0	\$0	\$0	\$0
	45-49	0.230	\$0	0.00%	0.0	\$0	\$0	\$0
	50-54	0.404	\$0	0.00%	0.0	\$0	\$0	\$0
	55-59	0.651	\$0	0.00%	0.0	\$0	\$0	\$0
	60-64	1.100	\$0	0.00%	0.0	\$0	\$0	\$0
	65+	2.062	\$0	0.00%	0.0	\$0	\$0	\$0
					0.0	\$0	\$0	\$0
Total Su	nnlemer	nt Premium f	or \$50,000 cove	erage	4	\$22,000	\$3	\$36

^{*} Employees who elect \$50,000 coverage with a portion subject to supplemental rates

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HECO-1217 DOCKET NO. 2006-0386 PAGE 5 OF 6 (UPDATED: 06/13/07)

Hawaiian Electric Co., Inc.

Calculation of Dependent Life Insurance 2007

Plan	Participation as of Jan-07	No. of Emp Enrolled	Annual Rate	TOTAL
10K	6.60%	102	\$26.76	\$2,730
25K	43.50%	676	\$70.44	\$47,617
				\$50,347

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\$50,347

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Hawaiian Electric Co., Inc.

Calculation of Accidental Death & Dismemberment

Average Single Coverage	MERIT \$188,397	BU \$179,121	TOTAL
Salary/Wage Adjustment	x 1.0000 \$188,397	x 1.0000 \$179,121	
Projected No. of Merit and BU Employees ¹	x 745 \$140,355,765	× 808 \$144,729,768	
Average Merit plus BU Single Coverage	\$1 4 0,555,705	\$1 44 ,723,700	\$183,571
Participation Annual Single Rate			x 0.00042
Single Coverage Premium			\$36,391
Average Family Coverage	\$227,425	\$200,918	
See Section (Contract Contract	OF PRINCIPAL AND THE		
Salary/Wage Adjustment	× 1.0000 \$227,425	x 1.0000 \$200,918	
Projected No. of Merit and BU Employees ¹	× 745 \$169,431,625	x 808 \$162,341,744	
Average Merit plus BU Family Coverage			\$213,634
Participation Annual Family Rate			x 794 x 0.000696
Family Coverage Premium			\$118,059
		ТОТА	AL \$154,450

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\$154,450

Note:

No. of Merit Employees No. of BU Employees 47.98% 52.02%

CA-IR-299

Ref: HECO T-13, pages 20-24 & HECO-1305 (Rent).

Referring to the list of existing leases set forth on HECO-1305, please provide the following:

- a. Please identify each building/floor that HECO entered into a new agreement or amendment to a pre-existing agreement to lease space subsequent to the Company's 2005 test year rate case.
- b. Please identify each building/floor and the amount of any expansion in the square footage leased subsequent to the Company's 2005 test year rate case.
- c. Referring to parts a. and b. above, please provide a copy of the lease agreement for each new or expanded area identified.

HECO Response:

- a. See Attachment 1, column A, for a listing of new or amended leases subsequent to the Company's 2005 test year rate case. Based on the changes discussed in Attachment 1, Exhibit HECO-1305 has been revised and is included at Attachment 11. At the next available opportunity, the test year will be adjusted to reflect these changes in rental expense.
- b. See Attachment 1, column B, for changes to square footage in the Company's test year 2007 estimates. Based on the changes discussed in Attachment 1, HECO-1305 has been revised and is included at Attachment 11. At the next opportunity, the test year will be adjusted to reflect these changes in rental expense.
- c. See Attachment 1, column C for support references.

	[A] CA-IR-299(a)	[B] CA-IR-299(b)	[C] CA-IR-299(c)	
	Amended or	Increase/		
	New Lease	(Decrease) In	Attachment	
Leases	Date	Sq Ft	No.	Comment
CPP Suite 1300	1/8/2007	± =	2	
CPP Suite 1515	9/18/2006	05	2 3	
CPP Suite 1570	9/18/2006	02	4	
HEI Sublease (CPP Suite 1760)	5/1/2005	(1,667)	5	Note (1)
CPP Suite 1710, 1750, and 1760	4/4/2005	4,316	6	Note (1)
ASB Tower 8th Floor	6/1/2007	(1,955)	7 & 7-A	Notes (2)&(2a)
Waterhouse Suite 506	9/18/2006	3,085	8	
Waterhouse Suite 404	9/18/2006	1,662	8	
Waterhouse Suite 101	3/1/2005	1,806	9	
ASB Tower Training Rooms	None	n/a	10	Note (3)
South Street Parking Lot	None	n/a		
Total net increase in sq ft		7,247		

Note (1):

HECO currently has a sublease with HEI for suite 1760 in Central Pacific Plaza (Attachment 5). In May 2007, HEI moved their existing personnel, who occupied office space on the 17th floor of Central Pacific Plaza, to another location. HEI plans to terminate its sublease (for suite 1760) with HECO, then reassign its 17th floor office space lease (for suites 1710, 1750 and 1760) to HECO (Attachment 6). HECO will use the additional office space primarily for its Industrial Relations division. Final termination and assignment lease documents are currently being drafted. Further, HECO has reflected this adjustment in the revised Exhibit HECO-1305 Attachment 11.

Note (2):

HECO currently has a sublease with HEI for office space on the 8th floor of ASB Tower (Attachment 7). In June 2007, HECO plans to terminate this sublease and move its existing personnel to the 4th floor of the King Street Building (see Note (2a) below). HECO and HEI plan to execute lease termination in June 2007. HECO has reflected the removal of this sublease in the revised Exhibit HECO-1305 at Attachment 11.

Note (2a):

As discussed in Note (2) above, HECO plans to move existing personnel from the 8th floor ASB Tower location to its 4th floor King Street Building in June 2007. Currently, HEI occupies office space on the 4th floor of the King Street Building. Commencing in May 2007, HEI's Treasury and Accounting departments will move to a new location, thus providing office space for HECO's existing 8th floor ASB Tower personnel. HEI's move will impact HECO's current billing to HEI for the usage of the 4th floor (Attachment 7-A). As such, HECO will adjust the rate case at the next opportunity to determine revenue requirements for its billing to HEI for office space in its King Street Building effective June 1, 2007.

Note (3):

As mentioned in Note (5) of B. Tamashiro's (T-13) Exhibit HECO-1305, page 2 of 2, and pages 22-23 of the direct testimony, HEI planned to share the costs of the 8th floor conference/training rooms equally among HEI, HECO and ASB. See Attachment 10 for support. HECO has reflected the actual allocated costs of the 8th floor conference/training rooms in the revised Exhibit HECO-1305 at Attachment 11.

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1

SIXTH AMENDMENT OF LEASE

THIS AMENDMENT, made this day of onward, 2007, by and between CENTRAL PACIFIC BANK, a Hawaii corporation, doing business as CENTRAL PACIFIC PLAZA, whose principal place of business and post office address is 220 South King Street, Honolulu, Hawaii 96813, hereinafter called "Landlord," and HAWAIIAN ELECTRIC COMPANY, INC., a Hawaii corporation, whose principal place of business and post office address is 900 Richards Street, Honolulu, Hawaii 96813, hereinafter called "Tenant,"

WITNESSETH:

WHEREAS, by that certain unrecorded Central Pacific Plaza Office Lease dated December 29, 1983, said Lease sometimes referred to herein as "Lease", Landlord's predecessor in interest, CKSS Associates, demised and leased to Main Hurdman, as tenant, all of that certain premises situated on the 13th floor of that certain building known as "Central Pacific Plaza" and located at 220 South King Street, Honolulu, Hawaii 96813, being Suite 1300; and

WHEREAS, said Lease was assigned to Hawaiian Electric Industries, Inc. by Assignment of Lease dated April 30, 1987, effective as of July 1, 1987, and was amended by Amendment of Lease dated May 13, 1987, effective as of July 1, 1987; and

WHEREAS, said Lease, as amended, was assigned to Tenant herein by unrecorded Assignment of Lease dated November 27, 1991, effective as of December 1, 1991; and

WHEREAS, a short form of said Lease, as amended and assigned, which Memorandum of Lease is dated November 27, 1991, was filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii as Document No. 1874501 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 91-176844; and

WHEREAS, said Lease was amended further by Second Amendment of Lease dated January 11, 1995, effective as of December 1, 1994, filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii as Document No. 2353824 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 96-176025; and

WHEREAS, said Lease was amended further by Third Amendment of Lease dated February 9, 1999, effective as of January 1, 1999, filed in the Office of the Assistant Registrar of the Land Court of the

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State of Hawaii as Document No. 2538200 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 99-063607; and

WHEREAS, said Lease was amended further by unrecorded Fourth Amendment of Lease dated June 26, 2001, effective as of December 1, 2000; and

WHEREAS, said Lease was amended further by unrecorded Fifth Amendment of Lease dated October 28, 2005, effective as of September 1, 2004; and

WHEREAS, the parties hereto desire to amend further the Lease, to extend the term thereof, in exercise of the option provided in said Third Amendment of Lease, upon the following terms and conditions:

NOW, THEREFORE, the parties hereto hereby mutually covenant and agree to amend further the Lease in this Sixth Amendment of Lease as follows:

1. Section 1.5 of the Lease is hereby amended by adding the following:

The term of this lease shall be extended for an additional ten (10) years, commencing on June 1, 2007, and ending on May 31, 2017, inclusive, subject to the provisions of Section 8 hereof.

Base rent in the amount of \$14,401.50 per month for the period June 1, 2007, to

2. Section 1.6.1 of the Lease is hereby amended by adding the following:

and including May 31, 2008.

Base rent in the amount of \$14,833.55 per month for the period June 1, 2008, to 1,545 and including May 31, 2009.

Base rent in the amount of \$15,278.56 per month for the period June 1, 2009, to 1.591 and including May 31, 2010.

Base rent in the amount of \$15,736.92 per month for the period June 1, 2010, to 1.439 and including May 31, 2011.

Base rent in the amount of \$16,209.03 per month for the period June 1, 2011, to 1.68% and including May 31, 2012.

annual increase Base rent for the period commencing June 1, 2012, to and including May 31, 2017, shall be determined by mutual agreement of the parties at least one hundred twenty (120) days months prior to the commencement of such period, or if they are unable to agree then the base rent shall be the prevailing fair market rental value for the Central Business District of Honolulu, as determined in accordance with Section 5.5 of this Lease. In no event, however, shall the monthly rent to be paid by Tenant to Landlord be less than the rental rate for the period immediately preceding.

- Section 1.6.2 of the Lease is hereby deleted in its entirety and the following substituted in lieu thereof:
 - 1.6.2. Additional rent of \$9,889.03, representing Tenant's share of estimated operating expenses subject to adjustment as set forth in Section 30 hereinbelow; and
- 4. Landlord shall pay Tenant the sum of up to SEVENTY-SIX THOUSAND AND NO/100 DOLLARS (\$76,000.00) to reimburse Tenant for all or a portion of Tenant's improvements to the Premises, such sum to include construction costs, architectural and engineering fees, construction management fees, costs for space planning, constructiondrawings and permitting and all other costs related to construction in the Premises.

Any portion of the said sum of \$76,000.00 that is not used for improvements as described above cannot be used by Tenant for any other purposes and shall instead be forfeited. Upon production by Tenant to Landlord of invoices indicating the costs and completion of said improvements, prior to August 31, 2007, Landlord shall make payment directly to Tenant's contractors, subcontractors and materialmen upon satisfaction of the lien period or earlier if lien releases satisfactory to Landlord are provided by all contractors, subcontractors and materialmen. If Tenant has previously paid such invoices, Landlord will reimburse Tenant, provided Tenant produces proof of payment having been made, along with said lien releases. Any invoices not presented for reimbursement prior to August 31, 2005, shall not be reimbursed and any portion of the allowance that would have been allocated to such invoices shall be forfeited.

All improvement work must meet with Landlord's requirements under the Lease and City and County code requirements, be done under a valid building permit, and be performed by an insured, licensed and bonded contractor. All building plans are to be submitted prior to construction for Landlord's written approval, which will not be unreasonably withheld.

5. Section 16 of the General Provisions of this Lease is hereby deleted in its entirety and the following substituted in lieu thereof:

SECTION 16. REPAIRS AND ALTERATIONS

- 16.1. Landlord shall be under no obligation to maintain or to make any repairs, alterations or improvements to or upon the Premises or any part thereof at any time, except as otherwise expressly provided in this lease.
- 16.2. Tenant, at its sole cost and expense, at all times during the term hereof, shall keep and maintain the Premises, the improvements thereof, and every part thereof in good and sanitary order, condition and repair and in compliance with all applicable laws and regulations, whenever enacted. Tenant shall paint the interior surfaces of the Premises at least once during each five (5) year period of the term hereof and shall perform such maintenance, replacement or repair of wall paper, if any, of the interior of the Premises as may be required and approved by Landlord. Tenant, at its sole cost and expense, shall repair any and all damage to the roof or exterior walls of the Premises and the Building and pay for the replacement of doors or windows of the Premises and the Building resulting from the acts or omissions of Tenant, Tenant's agents, employees or invitees. Tenant hereby waives any right to make repairs at Landlord's expense. Tenant shall not make changes to locks on doors or add, disturb or in any way change any plumbing, air-conditioning system or wiring without first obtaining written consent of Landlord. Tenant shall not put any curtains, draperies or other hangings on or beside the windows in the Premises without first obtaining Landlord's consent. All required repairs shall be made with the least inconvenience reasonably possible under the circumstances to Landlord.
- 16.3. If Tenant refuses or neglects to repair the Premises as required hereunder and to the reasonable satisfaction of Landlord as soon as reasonably possible after written demand, Landlord may make such repairs without liability to Tenant for any loss or damage that may accrue to Tenant's stock or other property or to Tenant's business by reason thereof. Upon completion thereof and upon presentation of a bill thereof, Tenant shall pay Landlord's cost for making such repairs as additional rent.
- 16.4. In the event any repairs become necessary to the structural portions of the Premises, then upon written notice from Tenant to Landlord stating the necessity therefor and the nature thereof, Landlord, with reasonable promptness after receipt of such written notice, shall make any such necessary repairs specified in such notice. Landlord shall not be required to make repairs to the interior surfaces of the Premises, except where damage to such interior surface has resulted from Landlord's intentional or willful acts, omissions or defects or which were otherwise required to be kept in repair by Landlord; all damage and repairs thereof shall be insured against by Tenant with Landlord as an additional insured. Landlord may make any alterations, additions or capital improvements which

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Landlord may deem necessary for the preservation, safety or improvement of the Premises or the Building, or to comply with any laws, codes, regulations or ordinances now or hereafter in effect, or for the purpose of reducing energy requirements; and if such is done to comply with any such law, code, regulation or ordinance or for the purpose of reducing energy requirements, the cost thereof shall be deemed to be a part of the operating expenses for the CENTRAL PACIFIC PLAZA as provided in Section 30 hereinbelow.

16.5. Except as may be specially provided herein to the contrary, Landlord has rented and Tenant hereby accepts the Premises, the common areas, and the utility services available to and designated for the Premises in "as is" condition; and Tenant agrees by taking possession of the Premises that the Premises are then in a tenantable and good condition. Except as may otherwise be provided herein, Tenant, at Tenant's own expense, shall perform all work and supply all materials necessary to prepare the Premises for occupancy by Tenant, in accordance with plans and specifications therefor prepared by and at the expense of Tenant. No work shall be commenced by Tenant until Tenant's final plans and specifications for the Premises and for connections to utility systems existing in the Building have been submitted to Landlord for review and have been approved in writing by Landlord. All work shall comply with all applicable building codes, ordinances and regulations. Before commencing any work, the Tenant shall provide Landlord with a copy of Tenant's contract with the contractor and shall furnish evidence satisfactory to Landlord that Tenant is financially able to pay the said contractor. Unless the cost thereof shall be less than ONE THOUSAND AND NO/100 DOLLARS (\$1,000.00), before commencing construction of any improvements in the Premises, Tenant shall furnish to Landlord a copy of a bond in an amount, in form, and with a surety acceptable to Landlord naming Landlord and Tenant as obligees and insuring completion of the proposed work free and clear of all mechanics' and materialmen's liens. Tenant will pay to Landlord a reasonable fee for review and approval of said plans and specifications, including any fees charged by an architect or engineer employed by Landlord for such review. Upon completion of construction, Tenant shall provide Landlord with a set of final plans and specifications of the improvements as constructed. Unless otherwise agreed, Tenant shall maintain the Premises and utility systems available to and designated for the Premises in the condition they existed upon the date of Tenant's inspection thereof, reasonable wear and tear excepted.

16.6. All alterations or improvements to the Premises shall remain for the benefit of Landlord and shall not be removed unless otherwise expressly agreed in writing, and shall be presumed to become an integral part of the Premises. All fixtures installed by Tenant shall be new or completely reconditioned.

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16.7. The design and all work and installations undertaken by Tenant shall be subject to the prior written approval thereof by Landlord and if a value in excess of \$10,000.00, a licensed architect must be employed by Tenant. Landlord shall have the right to order any contractor of the Tenant who violates any of Landlord's requirements or standards of work to cease work and to remove itself, its equipment and its employees from the Building. Tenant's contractor shall conduct its work in such a manner so as not to interfere with or cause any interruption of either (1) Landlord's construction, (2) another tenant's occupancy or construction, or (3) other phases of Landlord's operation of the Building. Landlord may without further reason withhold approval of any alterations, additions and improvements if the plans or specifications therefor are not acceptable to the architect or engineer (if any) retained by Landlord to review the same. In connection with any request for approval as required by the terms of this paragraph, Landlord may charge a reasonable review fee and may retain the services of an architect, consultant or engineer, and the reasonable fees of such architect, consultant and/or engineer shall be reimbursed to Landlord by Tenant. Landlord's approval of any plans and suggestions for the revision thereof shall not be construed to be an agreement or representation on Landlord's part of the adequacy or suitability of the alterations, additions or improvements shown for the intended purposes.

16.8. ASBESTOS AND HAZARDOUS MATERIALS. Landlord hereby warrants that, to the best of its knowledge, no asbestos containing materials ("ACM") were used in the original construction of the ceiling, walls and insulation of the Premises. Landlord, at its sole discretion, may withhold consent to any repairs, modifications, alterations or construction within the Premises which in Landlord's opinion may result in the introduction of ACM or other Hazardous Material. In the event ACM or other Hazardous Material is discovered in or about the Premises, or in the event ACM or other Hazardous Material must be removed and Tenant's use of the Premises is affected thereby, this lease shall not be void or voidable, nor shall such discovery or work be construed as a constructive eviction unless 50% or more of the Premises is not usable. Tenant shall continue to observe all terms and conditions of this lease, except that the rent herein shall be reduced, as of the date of the interference with Tenant's use of the Premises until the date full use of the Premises is restored to Tenant, in the same proportion as the rentable area of the Premises shall have been reduced. All costs of any inspection, testing, removal, abatement, restoration, compliance with laws and regulation and monitoring due to ACM or other Hazardous Material incurred by Landlord with respect to the Premises shall be included as a Special Tenant expense as defined in Section 30. Anything herein to the contrary notwithstanding, Landlord shall not be liable for any damages due to ACM or other Hazardous Materials within the Premises or the Building, and Landlord shall not be

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responsible or liable for interruption of services, loss profits or any other damages due to ACM or any other Hazardous Materials.

Tenant covenants and agrees to clean-up, remove, mitigate and take any other action respecting Hazardous Materials or ACM which it has installed or brought on the Premises to the extent such clean-up, removal, mitigation, or other action is required of Tenant by the Hazardous Materials Laws. In the event Tenant fails to comply with the requirements of the Hazardous Materials Laws, and as a result of such failure to comply, Landlord, or any mortgagee of Landlord's interest are joined or named in any action, hearing, proceeding or investigation by or before any federal, Hawaii State or municipal authorities or regulatory bodies, Tenant will defend, indemnify and hold harmless each and all of the aforesaid parties against any loss, fines, penalties, damages, injuries and claims due to exposure to ACM or any other Hazardous Material, or costs (including, without limiting the generality of the foregoing, reasonable attorneys' fees and court costs).

Tenant shall not cause or permit any Hazardous Material to be used, stored, generated or disposed of on or in the Premises or the Building by Tenant, Tenant's agents, employees, contractors or invitees without first obtaining Landlord's written consent, which consent may be arbitrarily withheld by Landlord. Tenant shall not discharge, leak or emit, or permit to be discharged, leaked or emitted, any material into the atmosphere, ground, sewer system, or any body of water, if that material (as is reasonably determined by the Landlord, or any governmental authority) does or may pollute or contaminate the same, or may adversely affect (a) the health, welfare, or safety of persons, whether located on the Premises or elsewhere, (b) the condition, use or enjoyment of the Building or any other real or personal property.

Any Hazardous Material permitted on the Premises and all containers therefor, shall be used, kept, stored and disposed of in a manner that complies with all federal, state and local laws or regulations applicable to such Hazardous Material. If Hazardous Materials are used, stored, generated or disposed of on or in the Premises by Tenant except as permitted above, or if the Premises become contaminated in any manner for which Tenant is legally liable (except where Tenant is liable solely on the basis of its interest in the Premises), Tenant shall indemnify and hold harmless the Landlord from any and all claims, damages, fines, judgments, penalties, costs, liabilities or losses (including, without limitation, any and all sums paid for settlement of claims, reasonable attorney's fees, consultant and expert fees) arising during or after the lease Term and arising as a result of that contamination by Tenant. This indemnification includes, without limitation, any and all costs incurred because of any investigation of the site or any clean-up, removal or restoration mandated by a federal, state or local agency or political subdivision. Without

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limitation of the foregoing, if Tenant causes or permits the presence of any Hazardous Material on the Premises (except where the Hazardous Material was on the Premises prior to Tenant taking possession) and that results in contamination. Tenant, at its sole expense, promptly shall take any and all necessary actions to return the Premises to the condition existing prior to the presence of any such Hazardous Material on the Premises. Tenant shall first obtain Landlord's approval for any such remedial action. As used herein, the term "Hazardous Materials" means and includes, without limitation, inflammable explosives, radioactive materials, asbestos, organic compounds (including polychlorinated biphenyls), pollutants, contaminates, hazardous wastes, toxic substances or related materials and any substances defined as or included in the definitions for "hazardous substances", "hazardous wastes", "extremely hazardous wastes", "hazardous materials" or "toxic substances" under the following laws, ordinances and regulations ("Hazardous Materials Laws"): Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, the Resource Conservation and Recovery Act, the Hazardous Materials Transportation Act, the Clean water Act, the Clean Air Act, the Toxic Substances Control Act, the Safe Drinking Water Act, as the same may be amended from time to time, any similar Hawaii State and local laws and ordinances, and regulations now or hereafter adopted, accomplished and promulgated pursuant thereto applying to the Premises or the Building.

16.9. COMPLIANCE WITH DISABILITY ACCESS LAWS. Tenant hereby covenants and agrees with Landlord that Tenant shall at all times during the Term comply with any and all governmental regulation of the Premises regarding access of disabled persons, including without limitation, Title III of the Americans With Disabilities Act of 1990, 42 U.S.C. § 12101 et seq. and Hawaii Revised Statutes Chapter 489, or any other similar federal, state or local laws or ordinances and the regulations promulgated thereunder, as the same may be amended from time to time (collectively "Disability Access Laws"). Landlord shall not be liable for any failure by Tenant to comply with the requirements of the Disability Access Laws with respect to the Premises during the Term hereof and Tenant expressly releases Landlord from any and all liability for any failure by Tenant to so comply. Tenant shall indemnify, defend and hold Landlord harmless from and against any and all claims and demands for loss or damage, including claims for discrimination, personal injury, monetary damage or injunctive relief arising out of or in connection with any failure or alleged failure of the Premises to comply with the Disability Access Laws, and Tenant shall reimburse Landlord for all costs and expenses, including reasonable attorneys' and other professional or consultants' fees, paid or incurred by Landlord in connection with the defense of any such claims including, but not limited to, all costs for research regarding settlement or other preventive measures which Landlord may take prior to the filing of such action or to attempt to prevent the filing of such an action.

6. Section 23 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:

23. NONLIABILITY OF LANDLORD. Tenant shall and hereby does assume all risk of loss or damage to furniture, fixtures, supplies, merchandise, and other property, by whomsoever owned, stored or placed in upon or about the Premises and does hereby agree that Landlord will not be responsible for loss or damage to any such property, unless caused by the willful act or gross neglect of Landlord, and Tenant hereby agrees to indemnify and save harmless Landlord from and against any and all claims for such loss or damage, other than damage caused solely by the willful act or gross neglect of Landlord or arising solely out of a defect which Landlord is required hereunder to repair and has failed to remedy within a reasonable time after having been given notice in writing thereof. Without prejudice to the generality of the foregoing, Landlord shall not be liable, unless otherwise grossly negligent, for any damage to any property at any time stored or kept in the Premises or in any other part of the Building, either from rain or from any other water which may leak, issue or flow from any part of the Building, or from the pipes or plumbing of the same or from any other place or quarter, nor shall Landlord be liable for any damage to property in the Building caused by accident involving the elevators, or for damage of any character arising out of defects of construction either of the Building, or the Premises or any machinery, equipment, electrical wiring or facility therein or failure or breakdown thereof or from lack of repair or proper operation of the same or from any other cause, unless the sole cause is a defect which Landlord is required hereunder to repair and Landlord shall have failed to remedy such defect within a reasonable time after written notice thereof. In any event, Landlord shall not be liable for any damage to Tenant's leasehold improvements, fixtures, personal property, or merchandise resulting from fire or other insurable hazards, regardless of the cause thereof, and Tenant hereby expressly releases Landlord from all liability for such damage. Landlord shall in no way be responsible to Tenant for any loss of property on the Premises, however occurring, or for any damage done to Tenant's effects by Landlord's janitorial personnel or any other employee or any other person. Tenant shall give to Landlord prompt written notice of any accident to, or defect in, any water or other pipes or plumbing, electric lights or fixtures or other fixtures or other equipment or appurtenances of the Premises. Landlord shall not be liable or responsible for any loss or damage sustained by Tenant, Tenant's agents, employees, business guests, invitees, licensees, or subtenants, by reason of the negligence, willfulness or malice of any other tenant, occupant, invitees, licensee or trespasser of the Property, or of any other person.

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All of the other terms, covenants and conditions as contained in the Lease, as amended by said Amendment of Lease, Second Amendment of Lease, Third Amendment of Lease, Fourth Amendment of Lease, and Fifth Amendment of Lease shall remain in full force and effect. Landlord and Tenant hereby mutually covenant and agree to observe and perform faithfully all of the terms, covenants and conditions which are or ought to be observed and performed by Landlord and Tenant, respectively, as contained in the Lease, as amended by Amendment of Lease, Second Amendment of Lease, Third Amendment of Lease, Fourth Amendment of Lease, and Fifth Amendment of Lease and as herein amended.

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

CENTRAL PACIFIC BANK	HAWAIIAN ELECTRIC COMPANY, INC.	
By Name: DENIS K. ISONO Title: Executive Vice President	Name: JACKIE MAHI ERICKSON Tide: VICE PRESIDENT	
By Or Georgia	Ву	7.9
Name: CURTIS A. OKAZAKI Title: Sr. Vice President and	Name: Title:	NP
Manager, Properties Division Landlord	Federal Identification No. 99040500	
	Tenant	

Legal Form: My

Sy Department:

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Survey

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CENTRAL PACIFIC BANK, a Hawaii con	SS.) 200 7, before me appeared DENIS K. ISONO, ly sworn, did say that he is the Executive Vice President of poration, and that the foregoing instrument was signed in Board of Directors, and the said officer acknowledged said corporation.
1-5	Name: STEPHANIET. KATAYAMA Notary Public, State of Hawaii My commission expires: 7/1/2008
President and Manager, Properties Division, of that the foregoing instrument was signed in behal	SS. DUAN , 200 7, before me appeared CURTIS A. Deing by me duly sworn, did say that he is the Senior Vice CENTRAL PACIFIC BANK, a Hawaii corporation, and It of said corporation by authority of its Board of Directors, ment to be the free act and deed of said corporation. Displana Shape Sana Name: STEPHANIE T. KATAYAMA Notary Public, State of Hawaii My commission expires: 7/16038

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STATE OF HAWAII)	
: SS.	
CITY AND COUNTY OF HONOLULU)	
On this 14th day of Pecenter, 200 k, before me appeared	NP
sworn, did say that they are the VICE PRESIDENT and, respectively,	'()
of HAWAIIAN ELECTRIC COMPANY, INC., a Hawaii corporation, and that the foregoing instrument	O
was signed in behalf of said corporation by authority of its Board of Directors, and the said officers	
acknowledged said instrument to be the free act and deed of said corporation.	
1.5	
Herentina & Johnson	
Name: FLORENTINAY JOHNASEN	
Notary Public, State of Hawaii	
My commission expires:	

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FIFTH AMENDMENT OF LEASE

THIS AMENDMENT, made this <u>18th</u> day of <u>September</u>, 2006, by and between CENTRAL PACIFIC BANK, a Hawaii corporation, whose principal place of business and post office address is 220 South King Street, Honolulu, Hawaii 96813, hereinafter called "Landlord," and HAWAIIAN ELECTRIC COMPANY, INC., a Hawaii corporation, whose principal place of business and post office address is 900 Richards Street, Honolulu, Hawaii 96813, hereinafter called "Tenant,"

WITNESSETH:

WHEREAS, by that certain unrecorded Central Pacific Plaza Office Lease dated January 3, 1990, said Lease sometimes referred to herein as "Lease", CKSS Associates, Landlord's predecessor-in-interest, demised and leased to Hawaiian Electric Industries, Inc., as tenant, all of that certain premises situated on the 15th floor of that certain building known as "Central Pacific Plaza" and located at 220 South King Street, Honolulu, Hawaii 96813, being Suites 1520 and 1530; and

WHEREAS, said Lease was assigned to Tenant herein by unrecorded Assignment of Lease dated November 27, 1991, effective as of January 1, 1992; and

WHEREAS, a short form of said Lease, as assigned, which Memorandum of Lease is dated November 27, 1991, was filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii as Document No. 1874505 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 91-176848; and

WHEREAS, said Lease was amended by Amendment of Lease dated February 14, 1992, effective as of February 15, 1992, filed as aforesaid as Document No. 1896558 and also recorded as aforesaid as Document No. 92-037628, adding Suite 1515 of Central Pacific Plaza, among other things; and

WHEREAS, said Lease was amended further by Second Amendment of Lease dated January 11, 1995, effective as of December 1, 1994, filed as aforesaid as Document No. 2353828 and also recorded as aforesaid as Document No. 96-176029; and

WHEREAS, said Lease was amended further by Third Amendment of Lease dated February 9, 1999, effective as of January 1, 1999, filed as aforesaid as Document No. 2538207 and also recorded as aforesaid as Document No. 99-063624; and

WHEREAS, said Lease was amended further by unrecorded Fourth Amendment of Lease dated October 28, 2005, effective as of March 1, 2004; and

WHEREAS, the parties hereto desire to, among other things, exercise the option provided for in the Lease (as provided in said Third Amendment of Lease) for Suite 1515, upon the following terms and conditions;

NOW, THEREFORE, the parties hereto hereby mutually covenant and agree to amend further the Lease in this Fifth Amendment of Lease as follows:

1. Section 1.5 of the Lease (as amended in said Third Amendment of Lease) is hereby amended by adding the following:

The term of this lease for Suite 1515 shall be extended for an additional ten (10) years, commencing on December 1, 2006, and ending on November 30, 2016, inclusive, subject to the provisions of Section 8 hereof.

2. Section 1.6.1 of the Lease (as amended in said Third Amendment of Lease), is hereby amended to reflect the agreed upon rental for Suite 1515, by adding the following:

Base rent for Suite 1515 shall be as follows:

Bas	e rent ir	the amoun	t of	\$1,02	4.80) per	month for	
the	period	December	1,	2006	to	and	including	1,40/54
Nov	ember 3	30, 2007.						

Bas	e rent ir	the amoun	t o	f \$1,08	7.2	l per	month for	3% incr
the	period	December	1,	2008,	to	and	including	1110576/0
Nov	ember 1	30, 2009;						1.48526/54

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Base rent for the period commencing December 1, 2011, to and including November 30, 2016, shall be determined by mutual agreement of the parties at least one hundred twenty (120) days prior to the commencement of such period, or if they are unable to agree then the base rent shall be the prevailing fair market rental value for the Central Business District of Honolulu, as determined in accordance with Section 5.5 of this Lease. In no event, however, shall the monthly rent to be paid by Tenant to Landlord be less than the immediately preceding rental rates.

- 3. Section 1.6.2 of the Lease is hereby deleted in its entirety and the following substituted in lieu thereof:
 - 1.6.2. Additional rent of \$753.96, representing Tenant's share of estimated operating expenses subject to adjustment as set forth in Section 30 hereinbelow; and
- 4. As to Suite 1515 only, Landlord shall pay Tenant a sum of FOUR THOUSAND AND NO/100 DOLLARS (\$4,000.00) to reimburse Tenant for all or a portion of Tenant's permanent improvements to the Premises, such sum shall include construction costs, architectural and engineering fees, construction management fees, costs for space planning, construction drawings and permitting all other costs related to construction in the Premises.

Any portion of the said sum of \$4,000.00 that is not used for improvements as described above cannot be used by Tenant for any other purposes and shall instead be forfeited. Upon production by Tenant to Landlord of invoices indicating the costs and completion of said improvements, prior to June 1, 2007, Landlord shall make payment directly to Tenant's contractors, subcontractors and materialmen upon satisfaction of the lien period or earlier if lien releases satisfactory to Landlord are provided by all contractors, subcontractors and materialmen. If Tenant has previously paid such invoices, Landlord will reimburse Tenant, provided Tenant produces proof of payment having been made, along with said lien releases. Any invoices not presented for reimbursement prior to June 1, 2007, shall not be reimbursed and any portion of the allowance that would have been allocated to such invoices shall be forfeited.

All improvement work must meet with Landlord's requirements under the Lease and City and County code requirements, and if required, be done under a valid building permit, and be performed by an insured, licensed and bonded contractor. All building plans are to be submitted prior to construction for Landlord's written approval, which will not be unreasonably withheld.

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- 5. The second paragraph of Section 3.3 of the Lease, as set forth in the Third Amendment of Lease and pertaining to an option period for Suite 1515, and Section 5 of the Third Amendment of Lease, pertaining to a previous tenant improvement allowance, shall be deleted in their entirety and of no further force or effect.
- 6. Section 16.4 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:

In the event any repairs become necessary to the structural portions of the Premises, then upon written notice from Tenant to Landlord stating the necessity therefor and the nature thereof, Landlord, with reasonable promptness after receipt of such written notice, shall make any such necessary repairs specified in such notice. Landlord shall not be required to make repairs to the interior surfaces of the Premises, except where damage to such interior surface has resulted from Landlord's intentional or willful acts, omissions or defects or which were otherwise required to be kept in repair by Landlord; all damage and repairs thereof shall be insured against by Tenant with Landlord as an additional insured. Landlord may make any alterations, additions or capital improvements which Landlord may deem necessary for the preservation, safety or improvement of the Premises or the Building, or to comply with any laws, codes, regulations or ordinances now or hereafter in effect, or for the purpose of reducing energy requirements; and if such is done to comply with any such law, code, regulation or ordinance or for the purpose of reducing energy requirements, the cost thereof shall be deemed to be a part of the operating expenses for the CENTRAL PACIFIC PLAZA as provided in Section 30 hereinbelow.

- 7. Section 16.5 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:
 - 16.5. Except as may be specially provided herein to the contrary, Landlord has rented and Tenant hereby accepts the Premises, the common areas, and the utility services available to and designated for the Premises in "as is" condition; and Tenant agrees by taking possession of the Premises that the Premises are then in a tenantable and good condition. Except as may otherwise be provided herein, Tenant, at Tenant's own expense, shall perform all work and supply all materials necessary to prepare the Premises for occupancy by Tenant, in accordance with plans and specifications therefor prepared by and at the expense of Tenant. No work shall be commenced by Tenant until Tenant's final plans and specifications for the Premises and for connections to utility systems existing in the Building have been submitted

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to Landlord for review and have been approved in writing by Landlord. All work shall comply with all applicable building codes, ordinances and regulations. Before commencing any work, the Tenant shall provide Landlord with a copy of Tenant's contract with the contractor and shall furnish evidence satisfactory to Landlord that Tenant is financially able to pay the said contractor. Unless the cost thereof shall be less than ONE THOUSAND AND NO/100 DOLLARS (\$1,000.00), before commencing construction of any improvements in the Premises, Tenant shall furnish to Landlord a copy of a bond in an amount, in form, and with a surety acceptable to Landlord naming Landlord and Tenant as obligees and insuring completion of the proposed work free and clear of all mechanics' and materialmen's liens. Tenant will pay to Landlord a reasonable fee for review and approval of said plans and specifications, including any fees charged by an architect or engineer employed by Landlord for such review. Upon completion of construction, Tenant shall provide Landlord with a set of final plans and specifications of the improvements as constructed. Unless otherwise agreed, Tenant shall maintain the Premises and utility systems available to and designated for the Premises in the condition they existed upon the date of Tenant's inspection thereof, reasonable wear and tear excepted.

8. Section 16.8 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:

Landlord hereby warrants that, to the best of its knowledge, no asbestos containing materials ("ACM") were used in the original construction of the ceiling, walls and insulation of the Premises. Landlord, at its sole discretion, may withhold consent to any repairs, modifications, alterations or construction within the Premises which in Landlord's opinion may result in the introduction of ACM or other Hazardous Material. In the event ACM or other Hazardous Material is discovered in or about the Premises, or in the event ACM or other Hazardous Material must be removed and Tenant's use of the Premises is affected thereby, this lease shall not be void or voidable. nor shall such discovery or work be construed as a constructive eviction unless 50% or more of the Premises is not usable. Tenant shall continue to observe all terms and conditions of this lease, except that the rent herein shall be reduced, as of the date of the interference with Tenant's use of the Premises until the date full use of the Premises is restored to Tenant, in the same proportion as the rentable area of the Premises shall have been reduced. All costs of any inspection, testing, removal, abatement, restoration. compliance with laws and regulation and monitoring due to ACM or other

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Hazardous Material incurred by Landlord with respect to the Premises shall be included as a Special Tenant expense as defined in Section 30. Anything herein to the contrary notwithstanding, Landlord shall not be liable for any damages due to ACM or other Hazardous Materials within the Premises or the Building, and Landlord shall not be responsible or liable for interruption of services, loss profits or any other damages due to ACM or any other Hazardous Materials.

Tenant covenants and agrees to clean-up, remove, mitigate and take any other action respecting Hazardous Materials or ACM which it has installed or brought on the Premises to the extent such clean-up, removal, mitigation, or other action is required of Tenant by the Hazardous Materials Laws. In the event Tenant fails to comply with the requirements of the Hazardous Materials Laws, and as a result of such failure to comply, Landlord, or any mortgagee of Landlord's interest are joined or named in any action, hearing, proceeding or investigation by or before any federal, Hawaii State or municipal authorities or regulatory bodies, Tenant will defend, indemnify and hold harmless each and all of the aforesaid parties against any loss, fines, penalties, damages, injuries and claims due to exposure to ACM or any other Hazardous Material, or costs (including, without limiting the generality of the foregoing, reasonable attorneys' fees and court costs).

Tenant shall not cause or permit any Hazardous Material to be used, stored, generated or disposed of on or in the Premises or the Building by Tenant, Tenant's agents, employees, contractors or invitees without first obtaining Landlord's written consent, which consent may be arbitrarily withheld by Landlord. Tenant shall not discharge, leak or emit, or permit to be discharged, leaked or emitted, any material into the atmosphere, ground, sewer system, or any body of water, if that material (as is reasonably determined by the Landlord, or any governmental authority) does or may pollute or contaminate the same, or may adversely affect (a) the health, welfare, or safety of persons, whether located on the Premises or elsewhere, (b) the condition, use or enjoyment of the Building or any other real or personal property.

Any Hazardous Material permitted on the Premises and all containers therefor, shall be used, kept, stored and disposed of in a manner that complies with all federal, state and local laws or regulations applicable to such Hazardous Material. If Hazardous Materials are used, stored, generated or disposed of on or in the Premises by Tenant except as permitted above, or if the Premises become contaminated in any manner for which Tenant is legally

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liable (except where Tenant is liable solely on the basis of its interest in the Premises), Tenant shall indemnify and hold harmless the Landlord from any and all claims, damages, fines, judgments, penalties, costs, liabilities or losses (including, without limitation, any and all sums paid for settlement of claims, reasonable attorney's fees, consultant and expert fees) arising during or after the lease Term and arising as a result of that contamination by Tenant. This indemnification includes, without limitation, any and all costs incurred because of any investigation of the site or any clean-up, removal or restoration mandated by a federal, state or local agency or political subdivision. Without limitation of the foregoing, if Tenant causes or permits the presence of any Hazardous Material on the Premises (except where the Hazardous Material was on the Premises prior to Tenant taking possession) and that results in contamination, Tenant, at its sole expense, promptly shall take any and all necessary actions to return the Premises to the condition existing prior to the presence of any such Hazardous Material on the Premises. Tenant shall first obtain Landlord's approval for any such remedial action. As used herein, the term "Hazardous Materials" means and includes, without limitation, inflammable explosives, radioactive materials, asbestos, organic compounds (including polychlorinated biphenyls), pollutants, contaminates, hazardous wastes, toxic substances or related materials and any substances defined as or included in the definitions for "hazardous substances", "hazardous wastes", "extremely hazardous wastes", "hazardous materials" or "toxic substances" under the following laws, ordinances and regulations ("Hazardous Materials Laws"): Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, the Resource Conservation and Recovery Act, the Hazardous Materials Transportation Act, the Clean water Act, the Clean Air Act, the Toxic Substances Control Act, the Safe Drinking Water Act, as the same may be amended from time to time, any similar Hawaii State and local laws and ordinances, and regulations now or hereafter adopted, accomplished and promulgated pursuant thereto applying to the Premises or the Building.

- 9. Section 23 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:
 - 23. NONLIABILITY OF LANDLORD. Tenant shall and hereby does assume all risk of loss or damage to furniture, fixtures, supplies, merchandise, and other property, by whomsoever owned, stored or placed in upon or about the Premises and does hereby agree that Landlord will not be responsible for loss or damage to any such property, unless caused by the willful act or gross neglect of Landlord, and Tenant hereby agrees to

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indemnify and save harmless Landlord from and against any and all claims for such loss or damage, other than damage caused solely by the willful act or gross neglect of Landlord or arising solely out of a defect which Landlord is required hereunder to repair and has failed to remedy within a reasonable time after having been given notice in writing thereof. Without prejudice to the generality of the foregoing, Landlord shall not be liable, unless otherwise grossly negligent, for any damage to any property at any time stored or kept in the Premises or in any other part of the Building, either from rain or from any other water which may leak, issue or flow from any part of the Building, or from the pipes or plumbing of the same or from any other place or quarter, nor shall Landlord be liable for any damage to property in the Building caused by accident involving the elevators, or for damage of any character arising out of defects of construction either of the Building, or the Premises or any machinery, equipment, electrical wiring or facility therein or failure or breakdown thereof or from lack of repair or proper operation of the same or from any other cause, unless the sole cause is a defect which Landlord is required hereunder to repair and Landlord shall have failed to remedy such defect within a reasonable time after written notice thereof. In any event, Landlord shall not be liable for any damage to Tenant's leasehold improvements, fixtures, personal property, or merchandise resulting from fire or other insurable hazards, regardless of the cause thereof, and Tenant hereby expressly releases Landlord from all liability for such damage. Landlord shall in no way be responsible to Tenant for any loss of property on the Premises, however occurring, or for any damage done to Tenant's effects by Landlord's janitorial personnel or any other employee or any other person. Tenant shall give to Landlord prompt written notice of any accident to, or defect in, any water or other pipes or plumbing, electric lights or fixtures or other fixtures or other equipment or appurtenances of the Premises. Landlord shall not be liable or responsible for any loss or damage sustained by Tenant, Tenant's agents, employees, business guests, invitees, licensees, or subtenants, by reason of the negligence, willfulness or malice of any other tenant, occupant, invitees, licensee or trespasser of the Property, or of any other person.

All of the other terms, covenants and conditions as contained in the Lease, as amended by said Amendment of Lease, Second Amendment of Lease, Third Amendment of Lease, and Fourth Amendment of Lease shall remain in full force and effect. Landlord and Tenant hereby mutually covenant and agree to observe and perform faithfully all of the terms, covenants and conditions which are or ought to be observed and performed by Landlord and Tenant, respectively, as contained in the Lease, as amended by said Amendment of Lease, Second Amendment of Lease, Third Amendment of Lease, and Fourth Amendment of Lease and as herein amended.

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IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

Sam

CENTRAL PACIFIC BANK

Name: DENIS K. ISONO

Title: Executive Vice President

By_

Name: CURTIS A. OKAZAKI

Title: Sr. Vice President and

Manager, Properties Division

Landlord

HAWAIIAN ELECTRIC COMPANY, INC.

By Name:

Name: JACKIE MAHI ERICKSON

By Amusthern

Name: LYNNE T. UNEMORI

Title: VICE PRESIDENT

Federal Identification No. 99-0040500

Tenant

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Office Of the Contract	,
	: SS.
CITY AND COUNTY OF HONOLULU)
	bu, 2006, before me appeared DENIS K. ISONO and
CURTIS A. OKAZAKI, to me personally k	nown, who, being by me duly sworn, did say that they

CURTIS A. OKAZAKI, to me personally known, who, being by me duly sworn, did say that they are the Executive Vice President and the Senior Vice President and Manager, Properties Division, respectively, of CENTRAL PACIFIC BANK, a Hawaii corporation, and that the foregoing instrument was signed in behalf of said corporation by authority of its Board of Directors, and the said officers acknowledged said instrument to be the free act and deed of said corporation.

15

STATE OF HAWAII

Name: STEPHANIE T KATAYAMA Notary Public, State of Hawaii

My commission expires: 7/1/2008

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STATE OF HAWAII)
	: SS.
CITY AND COUNTY OF HONOLUL	.U)
On this And day of UNEN	, to me personally known, who, being by me duly
sworn, did say that they are the	VICE PRESIDENT and VICE PRESIDENT,
respectively, of HAWAIIAN ELECTR	UC COMPANY, INC., a Hawaii corporation, and that the
	alf of said corporation by authority of its Board of Directors, d instrument to be the free act and deed of said corporation.
	4. 1.5.
	thounting Johnson
	Name: FLORENTINA L JOHNASEN
	Notary Public, State of Hawaii
	My commission expires: "/12/2007

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FOURTH AMENDMENT OF LEASE

THIS AMENDMENT, made this 18th day of September , 2006, by and between CENTRAL PACIFIC BANK, a Hawaii corporation, whose principal place of business and post office address is 220 South King Street, Honolulu, Hawaii 96813, hereinafter called "Landlord," and HAWAIIAN ELECTRIC COMPANY, INC., a Hawaii corporation, whose principal place of business and post office address is 900 Richards Street, Honolulu, Hawaii 96813, hereinafter called "Tenant,"

WITNESSETH:

WHEREAS, by that certain unrecorded Central Pacific Plaza Office Lease dated December 2, 1992, said Lease sometimes referred to herein as "Lease", CKSS Associates, Landlord's predecessor-in-interest, demised and leased to Tenant all of that certain premises situated on the 15th floor of that certain building known as "Central Pacific Plaza" and located at 220 South King Street, Honolulu, Hawaii 96813, being Suite 1570; and

WHEREAS, a short form of said Lease, which Memorandum of Lease is dated December 4, 1992, was filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii as Document No. 1982533 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 92-208304; and

WHEREAS, said Lease was amended by First Amendment of Lease dated January 11, 1995, effective as of December 1, 1994, filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii as Document No. 2353830 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 96-176034; and

WHEREAS, said Lease was further amended by Second Amendment of Lease dated February 9, 1999, effective as of January 1, 1999, filed in the Office of the Assistant Registrar of the Land Court of the State of Hawaii as Document No. 2538205 and noted on Transfer Certificate of Title No. 234,411 and also recorded in the Bureau of Conveyances of the State of Hawaii as Document No. 99-063622; and

WHEREAS, said Lease was further amended by unrecorded Third Amendment of Lease dated March 16, 2004, effective as of March 1, 2004; and

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WHEREAS, the parties desire to, among other things, exercise the option provided for in the Lease, upon the following terms and conditions;

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NOW, THEREFORE, the parties hereto hereby mutually covenant and agree to amend the Lease in this Fourth Amendment of Lease as follows:

Section 1.5 of the Lease is hereby amended by adding the following:

The term of this lease shall be extended for an additional ten (10) years, commencing on December 1, 2006, and ending on November 30, 2016, inclusive, subject to the provisions of Section 8 hereof.

2. Section 1.6.1 of the Lease is hereby amended by adding the following:

Base rent in the amount of \$4,156.60 per month for the period December 1, 2006, to and including November 30, 2007.

1.40/SF

Base rent in the amount of \$4,281.30 per month for the period 3th inex or 1.442/SF December 1, 2007, to and including November 30, 2008;

Base rent in the amount of \$4,409.74 per month for the period 3% incr or 1.4852015.

December 1, 2008, to and including November 30, 2009;

Base rent in the amount of \$4,542.03 per month for the period 3% incr or 1.5295215F December 1, 2009, to and including November 30, 2010;

Base rent in the amount of \$4,678.29 per month for the period 3% inex N 1.57571/SF December 1, 2010, to and including November 30, 2011;

Base rent for the period commencing December 1, 2011, to and including November 30, 2016, shall be determined by mutual agreement of the parties at least one hundred twenty (120) days prior to the commencement of such period, or if they are unable to agree then the base rent shall be the prevailing fair market rental value for the Central Business District of Honolulu, as determined in accordance with Section 5.5 of this Lease. In no event, however, shall the monthly rent to be paid by Tenant to Landlord be less than the immediately preceding rental rates.

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- Section 1.6.2 of the Lease is hereby deleted in its entirety and the following substituted in lieu thereof:
 - 1.6.2. Additional rent of \$3,058.07, representing Tenant's share of estimated operating expenses subject to adjustment as set forth in Section 30 hereinbelow; and
- 4. Landlord shall pay Tenant a sum of SEVENTEEN THOUSAND AND NO/100 DOLLARS (\$17,000.00) to reimburse Tenant for all or a portion of Tenant's permanent improvements to the Premises, such sum shall include construction costs, architectural and engineering fees, construction management fees, costs for space planning, construction drawings and permitting all other costs related to construction in the Premises.

Any portion of the said sum of \$17,000.00 that is not used for improvements as described above cannot be used by Tenant for any other purposes and shall instead be forfeited. Upon production by Tenant to Landlord of invoices indicating the costs and completion of said improvements, prior to June 1, 2007, Landlord shall make payment directly to Tenant's contractors, subcontractors and materialmen upon satisfaction of the lien period or earlier if lien releases satisfactory to Landlord are provided by all contractors, subcontractors and materialmen. If Tenant has previously paid such invoices, Landlord will reimburse Tenant, provided Tenant produces proof of payment having been made, along with said lien releases. Any invoices not presented for reimbursement prior to June 1, 2007, shall not be reimbursed and any portion of the allowance that would have been allocated to such invoices shall be forfeited.

All improvement work must meet with Landlord's requirements under the Lease and City and County code requirements, and if required, be done under a valid building permit, and be performed by an insured, licensed and bonded contractor. All building plans are to be submitted prior to construction for Landlord's written approval, which will not be unreasonably withheld.

- Section 3, paragraph 2 of the Lease, as amended in Section 4 of the Second Amendment of Lease, pertaining to an option period, and Section 5 of the Second Amendment of Lease, pertaining to a previous Tenant Improvement Allowance, shall be deleted in their entirety and of no further force or effect.
- Section 16.4 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:

In the event any repairs become necessary to the structural portions of the Premises, then upon written notice from Tenant to Landlord stating the necessity therefor and the nature thereof, Landlord, with reasonable

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promptness after receipt of such written notice, shall make any such necessary repairs specified in such notice. Landlord shall not be required to make repairs to the interior surfaces of the Premises, except where damage to such interior surface has resulted from Landlord's intentional or willful acts, omissions or defects or which were otherwise required to be kept in repair by Landlord; all damage and repairs thereof shall be insured against by Tenant with Landlord as an additional insured. Landlord may make any alterations, additions or capital improvements which Landlord may deem necessary for the preservation, safety or improvement of the Premises or the Building, or to comply with any laws, codes, regulations or ordinances now or hereafter in effect, or for the purpose of reducing energy requirements; and if such is done to comply with any such law, code, regulation or ordinance or for the purpose of reducing energy requirements, the cost thereof shall be deemed to be a part of the operating expenses for the CENTRAL PACIFIC PLAZA as provided in Section 30 hereinbelow.

 Section 16.5 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:

> 16.5. Except as may be specially provided herein to the contrary, Landlord has rented and Tenant hereby accepts the Premises, the common areas, and the utility services available to and designated for the Premises in "as is" condition; and Tenant agrees by taking possession of the Premises that the Premises are then in a tenantable and good condition. Except as may otherwise be provided herein, Tenant, at Tenant's own expense, shall perform all work and supply all materials necessary to prepare the Premises for occupancy by Tenant, in accordance with plans and specifications therefor prepared by and at the expense of Tenant. No work shall be commenced by Tenant until Tenant's final plans and specifications for the Premises and for connections to utility systems existing in the Building have been submitted to Landlord for review and have been approved in writing by Landlord. All work shall comply with all applicable building codes, ordinances and regulations. Before commencing any work, the Tenant shall provide Landlord with a copy of Tenant's contract with the contractor and shall furnish evidence satisfactory to Landlord that Tenant is financially able to pay the said contractor. Unless the cost thereof shall be less than ONE THOUSAND AND NO/100 DOLLARS (\$1,000.00), before commencing construction of any improvements in the Premises, Tenant shall furnish to Landlord a copy of a bond in an amount, in form, and with a surety acceptable to Landlord naming Landlord and Tenant as obligees and insuring

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completion of the proposed work free and clear of all mechanics' and materialmen's liens. Tenant will pay to Landlord a reasonable fee for review and approval of said plans and specifications, including any fees charged by an architect or engineer employed by Landlord for such review. Upon completion of construction, Tenant shall provide Landlord with a set of final plans and specifications of the improvements as constructed. Unless otherwise agreed, Tenant shall maintain the Premises and utility systems available to and designated for the Premises in the condition they existed upon the date of Tenant's inspection thereof, reasonable wear and tear excepted.

 Section 16.8 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:

> Landlord hereby warrants that, to the best of its knowledge, no asbestos containing materials ("ACM") were used in the original construction of the ceiling, walls and insulation of the Premises. Landlord, at its sole discretion, may withhold consent to any repairs, modifications, alterations or construction within the Premises which in Landlord's opinion may result in the introduction of ACM or other Hazardous Material. In the event ACM or other Hazardous Material is discovered in or about the Premises, or in the event ACM or other Hazardous Material must be removed and Tenant's use of the Premises is affected thereby, this lease shall not be void or voidable, nor shall such discovery or work be construed as a constructive eviction unless 50% or more of the Premises is not usable. Tenant shall continue to observe all terms and conditions of this lease, except that the rent herein shall be reduced, as of the date of the interference with Tenant's use of the Premises until the date full use of the Premises is restored to Tenant, in the same proportion as the rentable area of the Premises shall have been reduced. All costs of any inspection, testing, removal, abatement, restoration, compliance with laws and regulation and monitoring due to ACM or other Hazardous Material incurred by Landlord with respect to the Premises shall be included as a Special Tenant expense as defined in Section 30. Anything herein to the contrary notwithstanding, Landlord shall not be liable for any damages due to ACM or other Hazardous Materials within the Premises or the Building, and Landlord shall not be responsible or liable for interruption of services, loss profits or any other damages due to ACM or any other Hazardous Materials.

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Tenant covenants and agrees to clean-up, remove, mitigate and take any other action respecting Hazardous Materials or ACM which it has installed or brought on the Premises to the extent such clean-up, removal, mitigation, or other action is required of Tenant by the Hazardous Materials Laws. In the event Tenant fails to comply with the requirements of the Hazardous Materials Laws, and as a result of such failure to comply, Landlord, or any mortgagee of Landlord's interest are joined or named in any action, hearing, proceeding or investigation by or before any federal, Hawaii State or municipal authorities or regulatory bodies, Tenant will defend, indemnify and hold harmless each and all of the aforesaid parties against any loss, fines, penalties, damages, injuries and claims due to exposure to ACM or any other Hazardous Material, or costs (including, without limiting the generality of the foregoing, reasonable attorneys' fees and court costs).

Tenant shall not cause or permit any Hazardous Material to be used, stored, generated or disposed of on or in the Premises or the Building by Tenant, Tenant's agents, employees, contractors or invitees without first obtaining Landlord's written consent, which consent may be arbitrarily withheld by Landlord. Tenant shall not discharge, leak or emit, or permit to be discharged, leaked or emitted, any material into the atmosphere, ground, sewer system, or any body of water, if that material (as is reasonably determined by the Landlord, or any governmental authority) does or may pollute or contaminate the same, or may adversely affect (a) the health, welfare, or safety of persons, whether located on the Premises or elsewhere, (b) the condition, use or enjoyment of the Building or any other real or personal property.

Any Hazardous Material permitted on the Premises and all containers therefor, shall be used, kept, stored and disposed of in a manner that complies with all federal, state and local laws or regulations applicable to such Hazardous Material. If Hazardous Materials are used, stored, generated or disposed of on or in the Premises by Tenant except as permitted above, or if the Premises become contaminated in any manner for which Tenant is legally liable (except where Tenant is liable solely on the basis of its interest in the Premises), Tenant shall indemnify and hold harmless the Landlord from any and all claims, damages, fines, judgments, penalties, costs, liabilities or losses (including, without limitation, any and all sums paid for settlement of claims, reasonable attorney's fees, consultant and expert fees) arising during or after the lease Term and arising as a result of that contamination by Tenant. This indemnification includes, without limitation, any and all costs incurred

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because of any investigation of the site or any clean-up, removal or restoration mandated by a federal, state or local agency or political subdivision. Without limitation of the foregoing, if Tenant causes or permits the presence of any Hazardous Material on the Premises (except where the Hazardous Material was on the Premises prior to Tenant taking possession) and that results in contamination, Tenant, at its sole expense, promptly shall take any and all necessary actions to return the Premises to the condition existing prior to the presence of any such Hazardous Material on the Premises. Tenant shall first obtain Landlord's approval for any such remedial action. As used herein, the term "Hazardous Materials" means and includes, without limitation, inflammable explosives, radioactive materials, asbestos, organic compounds (including polychlorinated biphenyls), pollutants, contaminates, hazardous wastes, toxic substances or related materials and any substances defined as or included in the definitions for "hazardous substances", "hazardous wastes", "extremely hazardous wastes", "hazardous materials" or "toxic substances" under the following laws, ordinances and regulations ("Hazardous Materials Laws"): Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, the Resource Conservation and Recovery Act, the Hazardous Materials Transportation Act, the Clean water Act, the Clean Air Act, the Toxic Substances Control Act, the Safe Drinking Water Act, as the same may be amended from time to time, any similar Hawaii State and local laws and ordinances, and regulations now or hereafter adopted, accomplished and promulgated pursuant thereto applying to the Premises or the Building.

- Section 23 of the General Provisions of this Lease is hereby amended in its entirety to read as follows:
 - 23. NONLIABILITY OF LANDLORD. Tenant shall and hereby does assume all risk of loss or damage to furniture, fixtures, supplies, merchandise, and other property, by whomsoever owned, stored or placed in upon or about the Premises and does hereby agree that Landlord will not be responsible for loss or damage to any such property, unless caused by the willful act or gross neglect of Landlord, and Tenant hereby agrees to indemnify and save harmless Landlord from and against any and all claims for such loss or damage, other than damage caused solely by the willful act or gross neglect of Landlord or arising solely out of a defect which Landlord is required hereunder to repair and has failed to remedy within a reasonable time after having been given notice in writing thereof. Without prejudice to the generality of the foregoing, Landlord shall not be liable, unless otherwise

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grossly negligent, for any damage to any property at any time stored or kept in the Premises or in any other part of the Building, either from rain or from any other water which may leak, issue or flow from any part of the Building, or from the pipes or plumbing of the same or from any other place or quarter. nor shall Landlord be liable for any damage to property in the Building caused by accident involving the elevators, or for damage of any character arising out of defects of construction either of the Building, or the Premises or any machinery, equipment, electrical wiring or facility therein or failure or breakdown thereof or from lack of repair or proper operation of the same or from any other cause, unless the sole cause is a defect which Landlord is required hereunder to repair and Landlord shall have failed to remedy such defect within a reasonable time after written notice thereof. In any event, Landlord shall not be liable for any damage to Tenant's leasehold improvements, fixtures, personal property, or merchandise resulting from fire or other insurable hazards, regardless of the cause thereof, and Tenant hereby expressly releases Landlord from all liability for such damage. Landlord shall in no way be responsible to Tenant for any loss of property on the Premises, however occurring, or for any damage done to Tenant's effects by Landlord's janitorial personnel or any other employee or any other person. Tenant shall give to Landlord prompt written notice of any accident to, or defect in, any water or other pipes or plumbing, electric lights or fixtures or other fixtures or other equipment or appurtenances of the Premises. Landlord shall not be liable or responsible for any loss or damage sustained by Tenant, Tenant's agents, employees, business guests, invitees, licensees, or subtenants, by reason of the negligence, willfulness or malice of any other tenant, occupant, invitees, licensee or trespasser of the Property, or of any other person.

All of the other terms, covenants and conditions as contained in the Lease, as amended by First Amendment of Lease, Second Amendment of Lease, and Third Amendment of Lease shall remain in full force and effect. Landlord and Tenant hereby mutually covenant and agree to observe and perform faithfully all of the terms, covenants and conditions which are or ought to be observed and performed by Landlord and Tenant, respectively, as contained in the Lease, First Amendment of Lease, Second Amendment of Lease, and Third Amendment of Lease, and as herein amended.

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IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

CENTRAL PACIFIC BANK

ByName	: DENIS K. IŚONO
Title:	Executive Vice President
Ву	calani
	: CURTIS A. OKAZAKI
Title:	Sr. Vice President & Manager, Properties Division
HAWAIIAN :	Landlord ELECTRIC COMPANY, INC.
	ELECTRIC COMPANY, INC.
Ву	ELECTRIC COMPANY, INC.
	ELECTRIC COMPANY, INC.
By Name: Title:	ELECTRIC COMPANY, INC.
By	ELECTRIC COMPANY, INC. LYNNE T. UNEMORI VICE PRESIDENT

Tenant

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STATE OF HAWAII	,		
	: SS.		
CITY AND COUNTY OF HONOLUI	U)		
On this day of and CURTIS A. OKAZAKI, to me pe they are the Executive Vice President respectively, of CENTRAL PACIFIC instrument was signed in behalf of said officers acknowledged said instrument.	sonally known, who and Sr. Vice Preside BANK, a Hawaii corporation by auth	ent and Manager, Properties Div corporation, and that the fore ority of its Board of Directors, as	y the vision goin
	Hinhow	I Katayama	
15	STEPH	HANIE T. KATAYAMA	
	Name:		

Notary Public, State of Hawaii My commission expires: 7/1/2008

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STATE OF HAWAII)
: SS. CITY AND COUNTY OF HONOLULU)
On this 23d day of Cugust, 2006, before me appeared LYNNE T. UNEMORI
duly swom, did say that they are the VICE PRESIDENT and VICE PRESIDENT,
respectively, of HAWAIIAN ELECTRIC COMPANY, INC., a Hawaii corporation, and that the
foregoing instrument was signed in behalf of said corporation by authority of its Board of Directors,
and the said officers acknowledged said instrument to be the free act and deed of said corporation.
L.S.
Name: FLORENTINA JOHNASEN Notary Public, State of Hawaii/ My commission expires: 1/1/2/2022



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HECO R/W 1992-002J

FIRST AMENDMENT OF SUBLEASE AND CONSENT

WITNESSETH:

WHEREAS, by that certain unrecorded Sublease dated June 26, 2001 (referred to herein as "Sublease"), the sublessor, HEI Power Corp., subleased to Sublessee, all of that certain premises situated on the 17th floor of that certain building known as "Central Pacific Plaza" and located at 220 South King Street, Honolulu, Hawaii 96813, being Suite No. 1760; and

WHEREAS, a short form of the Sublease, dated September 28, 2001, but effective as of June 15 2001, was recorded in the Bureau of Conveyances, State of Hawaii, as Document No. 2001-153593; and

WHEREAS, HEI Power Corp. assigned its interest in the Sublease to Sublessor herein, by unrecorded Assignment dated January 23, 2002, effective February 1, 2002; and

WHEREAS, the parties hereto desire to amend the Sublease, to, among other things, extend the term thereof, upon the following terms and conditions;

NOW, THEREFORE, the parties hereto hereby mutually covenant and agree to amend the Sublease in this First Amendment of Sublease as follows:

1

 The first paragraph of Section 4 is hereby deleted in its entirety and the following substituted in lieu thereof:

Sublessee shall pay to Sublessor as rent for the Premises in advance on the first day of each calendar month of the term of this Sublease without deduction offset, prior notice or demand, in lawful money of the United States, thirty-nine percent (39%) of Sublessor's monthly base rent, common area maintenance charges and general excise tax, which is currently three thousand seven hundred ninety-two and 45/100 dollars (\$3,792.45), plus applicable general excise tax on such percentage or portion thereof. If the commencement date is not the first day of the month, or if the Sublease termination date is not the last day of the month, a prorated monthly installment shall be paid at the then current rate for the fractional month during which the Sublease commences and/or terminates.

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2. Section 5(a) is hereby amended by adding the following:

The term of this Sublease shall be extended for an additional five (5) years, commencing on June 1, 2005, and ending on May 31, 2010, inclusive.

- Section 5(b) is hereby deleted in its entirety.
- 4. Section 8.2 is hereby deleted in its entirety and the following substituted in lieu thereof:

HECO may use 39% of the Sublessee Improvement allowance provided for in Item 5 of the Third Amendment of (Master) Lease dated , which amounts to a total of \$10,272.80 (.39 x \$6.95 x 3,790 square feet).

- 5. Section 8.4 is hereby amended to replace 'HEI Power Corp.' with 'Hawaiian Electric Industries, Inc.'
- 6. Section 8.6 of the Sublease is hereby deleted in its entirety and the following substituted in lieu thereof:

Sublessee shall have the first option to sublet from Sublessor, or its successor in interest, any portion of the premises covered under the Master Lease that it does not otherwise sublet.

7. Section 8.8 of the Sublease is hereby deleted in its entirety and the following substituted in lieu thereof:

Sublessor shall have the right to assign, novate, transfer, pledge, mortgage, hypothecate or otherwise encumber the Master Lease or any of its interest therein, and/or sublet the premises not otherwise sublet to Sublessee (subject to Section 8.6 of the Sublease), in accordance with the terms of the Master Lease; provided, however, that if Sublessor assigns its interest as Sublessor under the Sublease or sublets any portion of the premises not sublet by Sublessee, Sublessor shall give Sublessee at least sixty (60) days advance written notice. Sublessee shall also have the option to construct a partition wall to demise the portion it sublets from Sublessor and may require that the Sublease be further amended to delete Sections 8.4 and 8.7 in their entirety, in which case any other recorded or unrecorded agreement between the Sublessor and Sublessee concerning their joint use of office space and/or equipment and supplies on the premises shall become null and void.

Section 8.9 is hereby deleted in its entirety.

All of the other terms, covenants and conditions contained in the Sublease shall remain in full force and effect. Sublessor and Sublessee hereby mutually covenant and agree to observe and perform faithfully all of the terms, covenants and conditions which are or ought to be

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observed and performed by Sublessor and Sublessee, respectively, as contained in the Sublesse, and as herein amended.

And CENTRAL PACIFIC BANK, a Hawaii corporation, successor-in-interest to CKSS ASSOCIATES, the Landlord named in that certain unrecorded Office Lease dated June 7, 1995, as amended, (hereinafter the "Lease") by and between Landlord and HEI POWER CORP., a Hawaii corporation, as Tenant, which Lease was assigned by HEI Power Corp., as Assignor, to HAWAIIAN ELECTRIC INDUSTRIES, INC., a Hawaii corporation, as Assignee, by Assignment of Office Lease effective the 1st day of February, 2002, does hereby join in and consent to the foregoing First Amendment of Sublease, on the condition that nothing contained herein shall release or otherwise impair its interest under the Master Lease or Sublease, insofar as this Amendment is concerned.

[Signatures begin on the following page]

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IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

> HAWAIIAN ELECTRIC INDUSTRIES, INC., a Hawaii corporation

Name: FETER C. LEWIS

VICE PRESIDENT - ADMINISTRATION & CORPORATE SECRETARY

Title: VICE PRESIDENT

"Sublessor"

STATE OF HAWAII) : SS. CITY AND COUNTY OF HONOLULU

who, being by me duly sworn, did say that they are the 2 Corporate Secretary and , respectively, of HAWAIIAN ELECTRIC INDUSTRIES, INC., a Hawaii corporation, and that said instrument was signed on behalf of said corporation by

authority of its Board of Directors, and said Officers acknowledged said instrument to be the free act and deed of said corporation.

> Type or print name: PHILIP C. HAURET Notary Public, State of Hawaii

My commission expires: Dec 3, 2008

A CONTRACTOR CONTRACTOR AND CONTRACTOR OF THE

" - " Cold and a skyllender (b.)

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APPROVED	HAWAIIAN ELECTRIC COMPANY, INC.
Legal Form: HAWAIIAN ELECTRIC CO., INC.	110
Legal Department	C(A)
By AUTO	By March Christian
Land & Rights of Way	Name: CHARLES M. PREEDMAN Title: VICE PRESIDENCE
	Name: JACKIE M. ENCKSON Title: VICT PRESIDENT "Sublessee"
STATE OF HAWAII) : ss. PF HONOLULU)
On this 30+	day of March, 20 5, before me appeared and JACKIE M. ERICKSON, to me personally known,
who, being by me du	ly swom, did say that they are the and
VICE PERSONA	, respectively, of HAWAIIAN ELECTRIC COMPANY, INC., a
Hawaii corporation, and	that said instrument was signed on behalf of said corporation by
authority of its Board of	Directors, and said Officers acknowledged said instrument to be the free
act and deed of said corpo	oration.
	Type or print name: PHILIP C. HAURET Notary Public, State of Hawaii
	My commission expires: Dec. 3, 2008

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CENTRAL PACIFIC BANK, a Hawaii corporation, doing business as CENTRAL PACIFIC PLAZA

	Ву	and the
	Name:	Denis Isono
	Title:	Executive Vice President
		Operations & Services
	Ву	Curtis Okazaki
	Name: Title:	Sr. Vice President & Manager Properties Division
		"Lessor"
STATE OF HAWAII)	
CITY AND COUNTY OF HONOLULU	: ss.)	
On this 28th day of 0	urtie Okazai	20 AS, before me appeared
who, being by me duly sworn, did s <u>Zr. Vice Pres.</u> , respectively, of		
doing business as CENTRAL PACIFIC P	LAZA, and that sa	id instrument was signed on behalf
of said corporation by authority of its Bo	ard of Directors, ar	nd said Officers acknowledged said
instrument to be the free act and deed of sa		Č
J5	Type or print name	
	Notary Public, Sta	
	My commission ex	spires: 7/1/2008

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THIRD AMENDMENT OF LEASE

THIS AMENDMENT, made this 4th day of 4 pr. 1, 2005, by and between CENTRAL PACIFIC BANK, a Hawaii corporation, doing business as CENTRAL PACIFIC PLAZA, whose principal place of business and post office address is 220 South King Street, Honolulu, Hawaii 96813, hereinafter called "Landlord," and HAWAIIAN ELECTRIC INDUSTRIES, INC., a Hawaii corporation, whose principal place of business and post office address is 900 Richards Street, Honolulu, Hawaii 96813, hereinafter called "Tenant,"

WITNESSETH:

WHEREAS, by that certain unrecorded Central Pacific Plaza Office Lease dated June 7, 1995, said Lease sometimes referred to herein as "Lease", the Landlord, successor-in-interest to CKSS Associates, as landlord, demised and leased to Tenant's predecessor in interest, HEI Power Corp., all of that certain premises situated on the 17th floor of that certain building known as "Central Pacific Plaza" and located at 220 South King Street, Honolulu, Hawaii 96813, being Suite No. 1710; and

WHEREAS, said Lease was amended by First Amendment of Lease, dated October 30, 1998, effective as of November 1, 1998, increasing the size of the premises by an additional 1098 rentable square feet, for a total of 3,877 rentable square feet; and

WHEREAS, said Lease was amended further by Second Amendment of Lease, dated June 6, 2000, adding Suite 1760, containing 439 rentable square feet, for a total of 4,316 rentable square feet; and

WHEREAS, said Lease, as amended, was assigned to Tenant herein by Assignment of Office Lease dated January 23, 2002, effective February 1, 2002; and

WHEREAS, the parties hereto desire to amend the Lease, to, among other things, extend the term thereof, upon the following terms and conditions;

NOW, THEREFORE, the parties hereto hereby mutually covenant and agree to amend the Lease, now encompassing Suites 1710, 1750 and 1760, in this Third Amendment of Lease as follows:

Section 1.5 of the Lease is hereby amended by adding the following:

The term of this lease shall be extended for an additional five (5) years, commencing on June 1, 2005, and ending on May 31, 2010, inclusive, subject to the provisions of Section 8 hereof.

Section 1.6.1 of the Lease is hereby amended by adding the following:

\$5,826.60 per month for the period June 1, 2005 to and including May 31, 2007.

(2)(2)

\$6,042.40 per month for the period June 1, 2007 to and including $\sqrt{40}$ May 31, 2010.

- 3. Section 1.6.2 of the Lease is hereby amended in its entirety to read as follows, reflecting the current amount of operating expenses:
 - 1.6.2. Additional rent of \$4,143.36, representing Tenant's share of estimated operating expenses subject to adjustment as set forth in Section 30 hereinbelow; and
- 4. Section 3.8, erroneously identified in the Second Amendment of Lease as Section 3.8 when it should have been numbered as Section 3.10, is hereby deleted and of no further force or effect. Section 3.8, as added by the First Amendment of Lease, shall remain in full force and effect. Section 3.9, as added by the First Amendment of Lease, is hereby deleted and of no further force or effect.
- 5. Landlord shall pay Tenant the sum of up to THIRTY THOUSAND AND NO/100 DOLLARS (\$30,000.00) to reimburse Tenant for all or a portion of Tenant's improvements to the Premises, such sum to include construction costs, architectural and engineering fees, construction management fees, costs for space planning, construction drawings and permitting and all other costs related to construction in the Premises. Said improvements in Premises shall be limited to demising of the premises (including but not limited to demolition or construction/finishing of demising walls and doors and electrical, lighting and air conditioning installation or relocation work), demolition or construction of partition walls and doors, repainting walls or doors (costs limited to building standard carpet only), structural, mechanical and electrical work, replacing or adding building standard light fixtures, all above ceiling work, and plumbing

Any portion of the said sum of \$30,000.00 that is not used for improvements as described above cannot be used by Tenant for any other purposes and shall instead be forfeited. Upon production by Tenant to Landlord of invoices indicating the costs and completion of said

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improvements, prior to November 30, 2005, Landlord shall make payment directly to Tenant's contractors, subcontractors and materialmen upon satisfaction of the lien period or earlier if lien releases satisfactory to Landlord are provided by all contractors, subcontractors and materialmen. If Tenant has previously paid such invoices, Landlord will reimburse Tenant, provided Tenant produces proof of payment having been made, along with said lien releases. Any invoices not presented for reimbursement prior to November 30, 2005, shall not be reimbursed and any portion of the allowance that would have been allocated to such invoices shall be forfeited.

All improvement work must meet with Landlord's requirements under the Lease and City and County code requirements, be done under a valid building permit, and be performed by an insured, licensed and bonded contractor. All building plans, except minor changes costing less than \$1,000.00, are to be submitted prior to commencement of construction for Landlord's written approval, which will not be unreasonably withheld.

- Insurance: With respect to Section 29 of the Lease, Tenant shall furnish Landlord with current certificates of such insurance, and shall name Landlord and its Managing Agent (if any) as additional insureds.
- 7. Sublease. In addition to the compliance by Tenant with Section 20 of the Lease, the specific use of any sublessee and the impact to the Building (and other tenants) shall be of substantive consideration in Landlord providing consent.
 - 8. Section 16.4 of the Lease is hereby amended in its entirety to read as follows:

In the event any repairs become necessary to the structural portions of the Premises, then upon written notice from Tenant to Landlord stating the necessity therefor and the nature thereof, Landlord, with reasonable promptness after receipt of such written notice, shall make any such necessary repairs specified in such notice. Landlord shall not be required to make repairs to the interior surfaces of the Premises, except where damage to such interior surface has resulted from Landlord's intentional or willful acts, omissions or defects or which were otherwise required to be kept in repair by Landlord; all damage and repairs thereof shall be insured against by Tenant with Landlord as an additional insured. Landlord may make any alterations, additions or capital improvements which Landlord may deem necessary for the preservation, safety or improvement of the Premises or the Building, or to comply with any laws, codes, regulations or ordinances now or hereafter in effect, or for the purpose of reducing energy requirements; and if such is done to comply with any such law, code, regulation or ordinance or for the purpose of reducing energy requirements, the cost thereof shall be deemed to be a part of the operating expenses for the CENTRAL PACIFIC PLAZA as provided in Section 30 hereinbelow.

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- Section 16.5 of the Lease is hereby amended in its entirety to read as follows:
 - 16.5. Except as may be specially provided herein to the contrary, Landlord has rented and Tenant hereby accepts the Premises, the common areas, and the utility services available to and designated for the Premises in "as is" condition; and Tenant agrees by taking possession of the Premises that the Premises are then in a tenantable and good condition. Except as may otherwise be provided herein, Tenant, at Tenant's own expense, shall perform all work and supply all materials necessary to prepare the Premises for occupancy by Tenant, in accordance with plans and specifications therefor prepared by and at the expense of Tenant. No work shall be commenced by Tenant until Tenant's final plans and specifications for the Premises and for connections to utility systems existing in the Building have been submitted to Landlord for review and have been approved in writing by Landlord. All work shall comply with all applicable building codes, ordinances and Before commencing any work, the Tenant shall provide regulations. Landlord with a copy of Tenant's contract with the contractor and shall furnish evidence satisfactory to Landlord that Tenant is financially able to pay the said contractor. Unless the cost thereof shall be less than ONE THOUSAND AND NO/100 DOLLARS (\$1,000.00), before commencing construction of any improvements in the Premises, Tenant shall furnish to Landlord a copy of a bond in an amount, in form, and with a surety acceptable to Landlord naming Landlord and Tenant as obligees and insuring completion of the proposed work free and clear of all mechanics' and materialmen's liens. Tenant will pay to Landlord a reasonable fee for review and approval of said plans and specifications, including any fees charged by an architect or engineer employed by Landlord for such review. Upon completion of construction, Tenant shall provide Landlord with a set of final plans and specifications of the improvements as constructed. otherwise agreed, Tenant shall maintain the Premises and utility systems available to and designated for the Premises in the condition they existed upon the date of Tenant's inspection thereof, reasonable wear and tear excepted.
- 10. Section 16.8 of the Lease is hereby amended in its entirety to read as follows:

Landlord hereby warrants that, to the best of its knowledge, no asbestos containing materials ("ACM") were used in the original construction of the ceiling, walls and insulation of the Premises. Landlord, at its sole discretion, may withhold consent to any repairs, modifications, alterations or construction within the Premises which in Landlord's opinion may result in the introduction of ACM or other Hazardous Material. In the event ACM or

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other Hazardous Material is discovered in or about the Premises, or in the event ACM or other Hazardous Material must be removed and Tenant's use of the Premises is affected thereby, this lease shall not be void or voidable, nor shall such discovery or work be construed as a constructive eviction unless 50% or more of the Premises is not usable. Tenant shall continue to observe all terms and conditions of this lease, except that the rent herein shall be reduced, as of the date of the interference with Tenant's use of the Premises until the date full use of the Premises is restored to Tenant, in the same proportion as the rentable area of the Premises shall have been reduced. All costs of any inspection, testing, removal, abatement, restoration, compliance with laws and regulation and monitoring due to ACM or other Hazardous Material incurred by Landlord with respect to the Premises shall be included as a Special Tenant expense as defined in Section 30. Anything herein to the contrary notwithstanding, Landlord shall not be liable for any damages due to ACM or other Hazardous Materials within the Premises or the Building, and Landlord shall not be responsible or liable for interruption of services, loss profits or any other damages due to ACM or any other Hazardous Materials.

Tenant covenants and agrees to clean-up, remove, mitigate and take any other action respecting Hazardous Materials or ACM which it has installed or brought on the Premises to the extent such clean-up, removal, mitigation, or other action is required of Tenant by the Hazardous Materials Laws. In the event Tenant fails to comply with the requirements of the Hazardous Materials Laws, and as a result of such failure to comply, Landlord, or any mortgagee of Landlord's interest are joined or named in any action, hearing, proceeding or investigation by or before any federal, Hawaii State or municipal authorities or regulatory bodies, Tenant will defend, indemnify and hold harmless each and all of the aforesaid parties against any loss, fines, penalties, damages, injuries and claims due to exposure to ACM or any other Hazardous Material, or costs (including, without limiting the generality of the foregoing, reasonable attorneys' fees and court costs).

Tenant shall not cause or permit any Hazardous Material to be used, stored, generated or disposed of on or in the Premises or the Building by Tenant, Tenant's agents, employees, contractors or invitees without first obtaining Landlord's written consent, which consent may be arbitrarily withheld by Landlord. Tenant shall not discharge, leak or emit, or permit to be discharged, leaked or emitted, any material into the atmosphere, ground, sewer system, or any body of water, if that material (as is reasonably determined by the Landlord, or any governmental authority) does or may pollute or contaminate the same, or may adversely affect (a) the health,

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welfare, or safety of persons, whether located on the Premises or elsewhere, (b) the condition, use or enjoyment of the Building or any other real or personal property.

Any Hazardous Material permitted on the Premises and all containers therefor, shall be used, kept, stored and disposed of in a manner that complies with all federal, state and local laws or regulations applicable to such Hazardous Material. If Hazardous Materials are used, stored, generated or disposed of on or in the Premises by Tenant except as permitted above, or if the Premises become contaminated in any manner for which Tenant is legally liable (except where Tenant is liable solely on the basis of its interest in the Premises). Tenant shall indemnify and hold harmless the Landlord from any and all claims, damages, fines, judgments, penalties, costs, liabilities or losses (including, without limitation, any and all sums paid for settlement of claims, reasonable attorney's fees, consultant and expert fees) arising during or after the lease Term and arising as a result of that contamination by Tenant. This indemnification includes, without limitation, any and all costs incurred because of any investigation of the site or any clean-up, removal or restoration mandated by a federal, state or local agency or political subdivision. Without limitation of the foregoing, if Tenant causes or permits the presence of any Hazardous Material on the Premises (except where the Hazardous Material was on the Premises prior to Tenant taking possession) and that results in contamination. Tenant, at its sole expense, promptly shall take any and all necessary actions to return the Premises to the condition existing prior to the presence of any such Hazardous Material on the Premises. Tenant shall first obtain Landlord's approval for any such remedial action. As used herein, the term "Hazardous Materials" means and includes, without limitation, inflammable explosives, radioactive materials, asbestos, organic compounds (including polychlorinated biphenyls), pollutants, contaminates, hazardous wastes, toxic substances or related materials and any substances defined as or included in the definitions for "hazardous substances", "hazardous wastes", "extremely hazardous wastes", "hazardous materials" or "toxic substances" under the following laws, ordinances and regulations ("Hazardous Materials Laws"): Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, the Resource Conservation and Recovery Act, the Hazardous Materials Transportation Act, the Clean water Act, the Clean Air Act, the Toxic Substances Control Act, the Safe Drinking Water Act, as the same may be amended from time to time, any similar Hawaii State and local laws and ordinances, and regulations now or hereafter adopted, accomplished and promulgated pursuant thereto applying to the Premises or the Building.

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- 11. Section 23 of the Lease is hereby amended in its entirety to read as follows:
 - 23. NONLIABILITY OF LANDLORD. Tenant shall and hereby does assume all risk of loss or damage to furniture, fixtures, supplies, merchandise, and other property, by whomsoever owned, stored or placed in upon or about the Premises and does hereby agree that Landlord will not be responsible for loss or damage to any such property, unless caused by the willful act or gross neglect of Landlord, and Tenant hereby agrees to indemnify and save harmless Landlord from and against any and all claims for such loss or damage, other than damage caused solely by the willful act or gross neglect of Landlord or arising solely out of a defect which Landlord is required hereunder to repair and has failed to remedy within a reasonable time after having been given notice in writing thereof. Without prejudice to the generality of the foregoing, Landlord shall not be liable, unless otherwise grossly negligent, for any damage to any property at any time stored or kept in the Premises or in any other part of the Building, either from rain or from any other water which may leak, issue or flow from any part of the Building. or from the pipes or plumbing of the same or from any other place or quarter, nor shall Landlord be liable for any damage to property in the Building caused by accident involving the elevators, or for damage of any character arising out of defects of construction either of the Building, or the Premises or any machinery, equipment, electrical wiring or facility therein or failure or breakdown thereof or from lack of repair or proper operation of the same or from any other cause, unless the sole cause is a defect which Landlord is required hereunder to repair and Landlord shall have failed to remedy such defect within a reasonable time after written notice thereof. In any event, Landlord shall not be liable for any damage to Tenant's leasehold improvements, fixtures, personal property, or merchandise resulting from fire or other insurable hazards, regardless of the cause thereof, and Tenant hereby expressly releases Landlord from all liability for such damage. Landlord shall in no way be responsible to Tenant for any loss of property on the Premises, however occurring, or for any damage done to Tenant's effects by Landlord's janitorial personnel or any other employee or any other person. Tenant shall give to Landlord prompt written notice of any accident to, or defect in, any water or other pipes or plumbing, electric lights or fixtures or other fixtures or other equipment or appurtenances of the Premises. Landlord shall not be liable or responsible for any loss or damage sustained by Tenant, Tenant's agents, employees, business guests, invitees, licensees, or subtenants, by reason of the negligence, willfulness or malice of any other tenant, occupant, invitees, licensee or trespasser of the Property, or of any other person.

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CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 6 PAGE 8 OF 8

All of the other terms, covenants and conditions as contained in the Lease, the First Amendment of Lease and the Second Amendment of Lease shall remain in full force and effect. Landlord and Tenant hereby mutually covenant and agree to observe and perform faithfully all of the terms, covenants and conditions which are or ought to be observed and performed by Landlord and Tenant, respectively, as contained in the Lease, the First Amendment of Lease, the Second Amendment of Lease, and as herein amended.

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

CENTRAL PACIFIC BANK

Title: Executive Vice President

By

Name: CURTIS A. OKAZAKI

Title: Sr. Vice President and Manager,

Properties Division

Landlord

HAWAIIAN ELECTRIC INDUSTRIES, INC.

Name:

PETER C.

VICE PRESIDENT - ADMINISTRATION

Name:

Title:

Federal Identification No. 99-0230047

Tenant

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SUBLEASE

1. PARTIES

This Sublease is entered into by and between <u>HAWAIIAN ELECTRIC INDUSTRIES</u>, <u>INC.</u> (hereinafter HEI or Sublessor) and <u>HAWAIIAN ELECTRIC COMPANY</u>, <u>INC.</u> (hereinafter HECO or Sublessee), as a Sublease under an unrecorded Office Lease dated October 24, 2005, entered into by Bishop Square Associates, a Hawaii general partnership, as Landlord, and Sublessor under this Sublease as Tenant (the "Office Lease"), a copy of which is attached as Exhibit A.

2. PROVISIONS CONSTITUTING SUBLEASE

- (a) This Sublease is subject to all of the terms and conditions of the Office Lease and Sublessee shall assume and perform the obligations of Sublessor and Tenant in said Office Lease, to the extent said terms and conditions are applicable to the Premises subleased pursuant to this Sublease. Sublessee shall not commit or permit to be committed on the Premises any act or omission, which shall violate any term of condition of the Office Lease. In the event of the termination of Sublessor's interest as Tenant under the Office Lease for any reason, then this Sublease shall terminate coincidentally therewith without any liability of Sublessor to Sublessee.
- (b) All of the terms and conditions contained in the Office Lease are incorporated herein, <u>except Specific Provision 1.01(n)</u>, as terms and conditions of this Sublease (with each reference therein to Landlord and Tenant to refer to Sublessor and Sublessee) and, along with all of the following Sections set out in this Sublease, shall be the complete terms and conditions of this Sublease.

3. PREMISES

Sublessor leases to Sublessee and Sublessee hires from Sublessor the following described Premises together with the appurtenances, situated in Suite 800 of the American Savings Bank Tower, 1001 Bishop Street, Honolulu, State of Hawaii, consisting of 1700 usable square feet, 255 square feet of common area, for a total of 1955 rentable square feet, as shown on attached Exhibit B.

4. RENTAL

Sublessee shall pay to Sublessor as rent for the Premises in advance on the first day of each calendar month of the term of this Sublease without deduction offset, prior notice or demand, in lawful money of the United States, twelve percent (12%) of Sublessor's monthly base rent, common area maintenance charges and general excise tax, plus applicable general excise tax on such percentage or portion thereof. If the commencement date is not the first day of the month, or if the Sublease termination date is not the last day of the month, a prorated monthly installment shall be paid at the then current rate for the fractional month during which the Sublease commences and/or terminates.

Receipt of \$______ is hereby acknowledged for rental for the first month, and the additional amount of \$_0.00_ as non-interest bearing security for performance under this Sublease. In the event Sublessee has performed all of the terms and conditions of this Sublease throughout the term, upon Sublessee vacating the Premises, the amount paid as a security deposit shall be returned to Sublessee after first deducting any sums owing to Sublessor.

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5. TERM

(a) The term of this Sublease shall be for a period of <u>five years</u> commencing on <u>April 1, 2006</u> at 8:00 a.m., and ending on <u>March 31, 2011 at 5:00 p.m.</u>

(b) In the event Sublessor is unable to deliver possession of the Premises at the commencement of the term, Sublessor shall not be liable for any damage caused thereby, nor shall this Sublease be void or voidable but Sublessee shall not be liable until such time as Sublessor offers to deliver possession of the Premises to Sublessee, but the term hereof shall not be extended by such delay. If Sublessee, with Sublessor's consent, takes possession prior to the commencement of the term, Sublessee shall do so subject to all of the covenants and conditions hereof and shall pay rent for the period ending with the commencement of the term at the same rental as that prescribed for the first month of the term, prorated at the rate of 1/30th thereof per day.

6. USE

Sublessee shall use the Premises for General offices and for no other purpose without the prior written consent of Sublessor. Sublessee's business shall be established and conducted throughout the term hereof in a first class manner. Sublessee shall not use the Premises for, or carry on, or permit to be carried on, any offensive, noisy or dangerous trade, business, manufacture or occupation nor permit any auction sale to be held or conducted on or about the Premises. Sublessee shall not do or suffer anything to be done upon the Premises which will cause structural injury to the Premises or the building of which the Premises form a part. The Premises shall not be overloaded and no machinery, apparatus or other appliance shall be used or operated in or upon the Premises which will in any manner injure. vibrate or shake the Premises or the building of which it is a part. No use shall be made of the Premises which will in any way impair the efficient operation of the sprinkler system (if any) within the building containing the Premises. Subjessee shall not leave the Premises unoccupied or vacant during the term. No musical instrument of any sort, or any noise making device will be operated or allowed upon the Premises for the purpose of attracting trade or otherwise. Sublessee shall not use or permit the use of the Premises or any part thereof for any purpose which will increase the existing rate of insurance upon the building in which the Premises are located, or cause a cancellation of any insurance policy covering the building or any part thereof. If any act on the part of Sublessee or use of the Premises by Sublessee shall cause, directly or indirectly, any increase of Sublessor's insurance expense, said additional expense shall be paid by Sublessor upon demand. No such payment by Sublessee shall limit Sublessor in the exercise of any other rights or remedies, or constitute a waiver of Sublessor's right to require Sublessee to discontinue such act or use.

7. NOTICES

All notices or demands or any kind required or desired to be given by Sublessor or Sublessee hereunder shall be in writing and shall be deemed delivered forty-eight (48) hours after depositing the notice or demand in the United States mail, certified or registered, postage prepaid, addressed to the Sublessor or Sublessee respectively at the addresses set forth after their signatures at the end of this Sublease. All rent and other payments due under this Sublease or the Office Lease shall be made by Sublessee to Sublessor at the same address.

8. SPECIAL CONDITIONS

The following terms and special conditions are applicable:

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- 8.1 Tenant Improvement Allowance. HECO may use twelve percent (12%) of the Tenant Improvement allowance provided for in the Office Lease (designated therein to be Special Condition 1.03A) which amounts to a total of \$28,675.80 (0.12 x \$15.00 x 15,931 square feet).
- 8.2 <u>Landlord Consent</u>. HECO shall obtain Landlord's consent and pay for Landlord's review and consent fee; provided, however, the payment obligation is effective whether or not the Landlord approves this Sublease.
- 8.3 <u>Confidentiality</u>. Both HEI and HECO shall instruct their employees and consultants to refrain from entering the premises of the other unescorted and to respect the confidentiality of the work being done by the other.
- 8.4 Indemnification. Except to the extent injuries or damage to persons or property on the Premises are caused by or result from the acts or omissions of Sublessor or its employees or agents and without limiting the obligations of Sublessee under any other provision of this Sublease, Sublessee shall not hold or attempt to hold Sublessor or its employees or agents liable for, and Sublessee will defend, indemnify and hold harmless Sublessor, its employees and agents from and against, any and all demands, claims, causes of action, fines, penalties, damages (including consequential damages), liabilities, judgments, and expenses (including, without limitation, attorneys' fees) incurred in connection with or arising from:
 - (1) the use or occupancy or manner of use or occupancy of the Premises, including damage to the Premises, by Sublessee or any person claiming under Sublessee;
 - (2) any activity, work or thing done, permitted or suffered by Sublessee in or about the Premises;
 - (3) any acts, omissions or negligence of Sublessee or any person claiming under Sublessee, or the contractors, agents, employees, invitees or visitors of Sublessee or any such person, on or relating to the Premises;
 - (4) any breach, violation or nonperformance by Sublessee of any term, covenant or provision of this Sublease or any applicable law, ordinance or governmental requirement;
 - (5) any injury or damage to the person, property or business of Sublessee, its employees, agents, contractors, invitees, visitors or any other person entering upon the Premises by invitation of Sublessee;
 - (6) any excess energy use including after hours services of air conditioning and lighting provided by Landlord at the request of Sublessee; or
 - (7) any recapture of the improvement allowance.

If any action or proceeding is brought against Sublessor or its employees by reason of any such claim for which Sublessee has indemnified Sublessor, Sublessee, upon written notice from Sublessor, will defend the same at Sublessee's expense with counsel reasonably satisfactory to Sublessor.

- 8.4.1 Relationship of Indemnity to Other Lease Obligations. Sublessee's agreement to indemnify Sublessor is not intended to and shall not:
 - (1) relieve any insurance carrier of its obligations under policies required to be carried under this Sublease, to the extent that such policies cover, or if carried would have covered, the matters subject to the Sublessee's Indemnification obligations; or
 - (2) supersede any inconsistent agreement of the Sublessee set forth in any other provision of this Sublease.
- 8.5 <u>Survival of Indemnification</u>. The clauses of Sections 8.4 and 8.4.1 shall survive the expiration or earlier termination of this Sublease until all claims against Sublessor involving any of the indemnified matters are fully and finally barred by the applicable statute of limitation.
- 8.6 <u>First Option to Sublet</u>. Sublessee shall have the first option to sublet from Sublessor, or its successor(s) in interest, any portion of the premises covered under the Office Lease that it does not otherwise sublet.

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8.7 Sublessor shall have the right to assign, novate, transfer, pledge, mortgage, hypothecate or otherwise encumber the Office Lease or any of its interests therein, and/or sublet the premises not otherwise sublet to Sublessee (subject to Section 8.6 of the Sublease); provided, however, that if Sublessor assigns its interest as Sublessor under the Sublease or sublets any portion of the premises not sublet by Sublessee, Sublessor shall give Sublessee at least sixty (60) days advance written notice. Sublessor shall also have option to construct a partition wall or walls to demise the portion(s) it sublets from Sublessor.

DATED: November 21, 2005

[signatures begin on the following page]

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 7 PAGE 5 OF 6

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

SUBLESSOR:

HAWAIIAN ELECTRIC INDUSTRIES, INC.

Name: PATRICIA U. WONG

Title:

VICE ASSESSED - ADMINISTRATION & CON-CRATE SECRETARY

Name: Curtis Y. Harada

Title:

Controller

SUBLESSEE:

HAWAIIAN ELECTRIC COMPANY, INC.

Name:

CHARLES M. FREEDMAN VICE PRESIDENT

Title:

BY

Name:

Title:

VICE PRESIDENT

ADDRESS:

Ms. Pat Wong (KS4-Z3) Hawaiian Electric Industries, Inc.

900 Richards Street Honolulu, Hawaii 96813

ADDRESS:

Land & Rights of Way (CP14-NL) Hawaiian Electric Company, Inc.

P. O. Box 2750

Honolulu, Hawaii 96840

APPROVED

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 7 PAGE 6 OF 6

The undersigned, Landlord under said Office Lease, hereby consents to the subletting of the Premises described herein on the terms and conditions contained in this Sublease. This consent shall apply only to this Sublease and shall not be deemed to be a consent to any other Sublease.

LANDLORD:

BISHOP SQUARE ASSOCIATES

A Hawaii general partnership, By Commonwealth Partners Management Services, L. P. Its Authorized Agent

BY_ Name: Title:

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 7-A PAGE 1 OF 2

INTEROFFICE CORRESPONDENCE



Hawaiian Electric Co., Inc.

May 3, 2007

To:

Pat Wong

From:

Cheryl Fujiwara

Subject:

King Street Building - Amended Square Footage and Rent

As a result of the upcoming HEI moves off of the 4th floor, HEI's floor area has been reduced. Thus, effective from June 1, 2007, the floor allocation and rent for HEI are as follows:

Area attributed to HECO	5434
Area attributed to HEI	3272
Total Common Area	2459
Conference Room	676
Copier Room	122
Shredder Room	78
TOTAL square footage of 4th Floor	12041

Area attributable to HEI for the 4th floor is as follows:

HEI Offices	3272
Prorated Common Area (3272 / 8706 = 37.58%)	
Portion of Conference Room (676/2)	338
Copier Room	61
Shredder Room (78/2)	<u>39</u>
TOTAL HEI 4th Floor Area	4634
The basement storage area	274
3 rd Floor	71
TOTAL HEI SQUARE FOOTAGE	4979 sf

Based on the revised HEI square footage, the revised rental calculations will be effective as of June 1, 2007.

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 7-A PAGE 2 OF 2

Ms. Pat Wong May 3, 2007 Page Two

The new monthly base rent will be as follows:

4979 sf x \$2.84 = \$14,140 per month effective June 1, 2007.

If the above rental calculations are acceptable, please sign in the space provided and return an executed copy for our files.

If you have any questions, please contact me at x7896. Thank you.

APPROVED:			5	
	Date:	MAY	7 - 2007	
Patricia Uyehara Wong				A.A.
Vice President				
Hawaiian Electric Industries, Inc.				

Cc: Amy Ejercito Jim Beavers

FIRST AMENDMENT TO LEASE AGREEMENT

LEASE AGREEMENT DATED AUGUST 5, 2004 BY AND BETWEEN WATERHOUSE, INC. AND HAWAIIAN ELECTRIC COMPANY, INC. FOR SPACES IN THE 770 KAPIOLANI BUILDING CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 **ATTACHMENT 8** PAGE 1 OF 1

THIS FIRST AMENDMENT TO LEASE AGREEMENT is made this 18 day of September, 2006 by and between WATERHOUSE, INC., (Landlord) and Hawaiian Electric Company, Inc.

Premises (revised): Suite 404 consisting of approximately, 1,662 rentable square feet and Suite 506

consisting of approximately 3,085 rentable square feet.

Term:

The term shall be extended by twenty-six (26) months commencing October 1,

2006 and ending November 30, 2008.

Rent:

Base rent per month will be as follows:

For period commencing October 1, 2006 ending on and including September 30,

2007, the monthly base rent will be:

Four Thousand two hundred ninety-six and 20/100 dollars (\$4,296.20).

For period commencing October 1, 2007 ending on and including November 30,

2008, the monthly base rent will be:

Four Thousand three hundred sixty-two and 68/100 dollars (\$4,362.68).

Common Area Maintenance charges, which are subject to annual adjustment, are currently \$0.87 per rentable sq. ft. (\$4,129.89) including but not limited to charges for electricity, air conditioning, refuse, water, repair, maintenance, real property taxes, HCDA assessments and management fees.

All rents (base & CAM) are subject to the State Excise Tax, currently 4.166%.

Improvements:

Tenant accepts the premises in "as is" condition.

Special Condition:

Common Area Maintenance (CAM) Waiver:

Tenant shall have the right to notify Landlord that it will no longer be utilizing the premises as "office space". Tenant shall be allowed to exercise it's right by providing 30 day advance written notice to the Landlord of it's intent to convert the premises to storage space. Tenant will be responsible to pay seventy-five percent (75%) of the building's CAM charges attributable to Suite 506, unless it elects to re-utilize the premises as "office space".

Except as hereinabove amended all other terms and conditions of the Lease shall remain in full force and

AGREED AND ACCEPTED:

•	
Date_	SEP 1 5 2006
Date_	9/14/06
	Date _

WATERHOUSE, INC.

Date 1 25 50

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WATERHOUSE, INC.

LEASE AGREEMENT

BETWEEN

WATERHOUSE, INC.
770 KAPIOLANI BUILDING
HONOLULU, HAWAII 96813
AND
HAWAIIAN ELECTRIC COMPANY, INC.
SUITES #101
MAY 01, 2005 – APRIL 30, 2007

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770 KAPIOLANI BUILDING

LEASE AGREEMENT

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770 KAPIOLANI BUILDING

LEASE AGREEMENT

THIS LEASE, made and entered into this1st day ofMarch, _2005_, by and	betweer
WATERHOUSE, INC., a Hawaii corporation, whose principal place of business and post office ad	idress is
670 Queen Street, Honolulu, Hawaii 96813, hereinafter called "Landlord" andHAWAIIAN EL	ECTRIC
COMPANY, INC. hereinafter called "Tenant";	

		WITNESSETH:	
1.	SPE	CIFIC PROVISIONS:	
	The f	following entries constitute certain specific provisions of this Lease and s in:	re referred to elsewhere
	(a)	Floor on which Premises are located	
	(b)	Suite Numbers	101
	(c)	(i) Approximate Usable Area of Premises (exclusive of allocable share Paragraph 40(a)(1))	1.806 aq. ft.
	(d)	The term of this Lease shall be for two (2) years and shall comm. May, 2005 and end on the 30th day of April, 2007, inclusive, sul Paragraph 7, hereof.	
	(e)	Monthly Rent the Sum of:	
		(i) Base Rent	\$ See Exhibit D
		(ii) Tenant's Proportionate Share of Building Operating Expenses (Paragraph 40(a))	3.26%
		(iii) Hawaii State General Excise Tax (as provided for and subject to all adjustment under Paragraph 33 of this Lease).	
	(f)	Security Deposit	\$ Waived
	(t) (g)	Unreserved Parking Space Allocation	
	25,53	8 5	
	(g)	Unreserved Parking Space Allocation	
	(g)	Unreserved Parking Space Allocation	

2. EXHIBITS AND SPECIAL PROVISIONS:

The following drawings and special provisions are attached hereto as exhibits and made a part of this Lease.

Exhibit A - Floor Plan showing the Premises

Exhibit B - Rules and Regulations pertaining to 770 KAPIOLANI BUILDING Exhibit C - Outline Specifications for Tenant Improvements

Exhibit D - Rent

Exhibit E - Special Provisions Exhibit F - Personal Guaranty

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THE PARTIES COVENANT AND AGREE AS FOLLOWS:

3. PREMISES:

Landlord hereby leases to Tenant and Tenant hereby leases of Landlord, upon the terms and conditions herein set forth, those certain Premises described in Paragraph 1(a), (b) and (c) and shown outlined in red on Exhibit A, situated in the 770 KAPIOLANI BUILDING in Honolulu, Hawaii, comprised of the parcel of property located at 770 Kapiolani Bivd., Honolulu, Hawaii. The area so leased is herein called the "Premises" and the building in which the same is situated is herein called the "Building". In addition to the Premises, Tenant shall, as an appurenance thereto, subject to the provisions hereof, have full right of access to the Premises over and across such entrances, lobbles, halls, corridors, stairways, and elevators as Landlord may from time to time designate and provide for common use by tenants in the Building.

4. RENT:

- (a) Tenant shall pay to Landlord monthly in advance throughout the term the monthly rent for the Premises set forth in Paragraph 1(e) hereof, in United States currency, over and above all other charges herein set forth and without deductions, offset, prior notice or demand. The installment of rent payable for any portion less than all of a calendar month shall be a pro rata portion of the rent payable for a full calendar month.
- (b) In the event the rent hersunder shall not be received prior to the tenth (10th) of the month, all payments of rent due hersunder shall bear interest as set forth in paragraph 41.
- (c) Tenant acknowledges that late payment by Tenant to Landlord of rent will cause Landlord to incur costs not contemplated by this Lease, the exact amount of such costs being extremely difficult and impracticable to fix. Such costs include, without limitation, processing accounting charges and late charges that may be imposed on Landlord by the terms of any note secured by any mortgage covering the Premises. Therefore, if any installment of rent due from Tenant is not received by Landlord when due, Tenant will pay to Landlord an additional sum to reimburse Landlord for such costs equal to five cents (\$0.05) for every dollar past due as set forth in the billing or other written demand rendered or made by Landlord, computed on the total amount of each such billing or demand as a late charge. The parties agree that this late charge represents a fair and reasonable estimate of the costs that Landlord will incur by reason of late payment by Tenant. Acceptance of any late charge shall not constitute a waiver of Tenant's default with respect to the overdue amount, or prevent Landlord from exercising any of the rights and remedies available to Landlord.
- (d) All payments of rent after the first payment shall be paid on or before the first day of each and every calendar month during the term hereof or any extension thereof. Any conveyance tax which may be due by reason of the execution of this Lesse or any extension or renewal thereof shall be paid by Tenant.
- (e) No payment by Tenant or receipt by Landford of a leaser amount than the balance due herein stipulated shall be deemed to be other than on account of the earliest stipulated rent, nor shall any endorsement or statement on any check or letter accompanying any check or payment as rent be deemed an accord and satisfaction, and Landford may accept such check or payment without prejudice to Landford's right to recover the balance of such rent or pursue any other remedy provided in this Lease. Payment will be applied to the balance as follows: interest, administration cost, other charges, CAM charges and rent.

5. QUIET ENJOYMENT:

Landlord agrees that upon payment of the rent herein provided for, and upon the observance and performance by Tenant of the covenants hereinafter contained and on the part of the Tenant to be observed and performed, subject to the provisions of this Lease, and any ground lease and any mortgage now or hereafter on Landlord's estate, Tenant shall peaceably hold and enjoy the Premises for the term hereby demised.

6. USE:

Premises may be used and occupied only for the purposes set forth in Paragraph 1(h) above and for no other purpose or purposes. No use shall be made of the Premises, nor act done in or about the Premises, which is improper, offensive, illegal, unlawful, breaches any insurance policy, or which shall increase the existing rate of insurance upon the Building or cause a cancellation of any insurance policy covering the Building, or any part thereof, nor shall any use be most of the Premises which would cause Landlord to be in default under any ground lesse or mortgage now or hereafter affecting all or any part of the Building, nor shall Tenant conduct or permit to be conducted on said Premises any business or activity which is contrary to or in violation of the laws of the United States of America, or of the State of Hawaii, or of the ordinances of the City and County of Honolulu, or of the rules and regulations of any department or agency of the above. Any increase in premiums or surcharges or

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damages resulting from such prohibited use shall be paid by Tenant to Landlord. Tenant will observe, perform and comply with all insurance policies at any time duly issued or in force which are applicable to the conduct of Tenant's business in or about the Premises or any part thereof, and will indemnify and defend Landlord against all actions, suits, damages and claims by whomsoever brought or made by reason of the nonperformance or nonobservance of such lews, statutes, ordinances, rules and regulations or of this covenant. Tenant shall not commit or allow to be committed any waste upon the Premises, or any public or private nulsance or other act or thing which disturbs any other tenant in the Building, nor shall Tenant use any apparatus, machinery or device in or about the Premises, or in or about any part of the Building, which shall cause any substantial noise, vibration, electrical disturbance or odors, nor shall Tenant overload the floor of the Premises. If any of Tenant's machines and equipment should disturb any other tenant in the Building, then Tenant shall provide adequate insulation or take such other action as may be determined by Landlord to be reasonably necessary to eliminate the disturbance.

7. POSSESSION:

- (a) In the event of Landford's inability to deliver possession of the Premises at the commencement of the Lease term, Landford shall not be liable for any damage caused thereby, except for the Landford's negligence thereof, nor shall this Lease become void or voidable, nor shall the Lease term be extended in any way, but in such event no rental shall be payable by Tenant to Landford for any portion of the Lease term prior to delivery of possession of the Premises. If Tenant, with Landford's permission, enters into possession of the Premises prior to commencement of the Lease term, all of the terms and conditions of this Lease, including the payment of rent, shall apply during such prior period.
- (b) For the purposes of this paragraph, possession shall be deemed to be delivered on the date specified by the Landlord that the Premises are ready for occupancy. Such specification shall be by written notice to Tenant by Landlord.

8. SERVICES PROVIDED BY LANDLORD:

Provided Tenent shall not be in default hereunder, Landlord agrees to furnish to Tenent electricity for lighting and normal office/warehouse use, automatic elevator service, washroom facilities and supplies, and water. Landlord shall also furnish customary janitorial and cleaning services on the basis of five (5) days per week within the Premiees, including exterior window washing and lighting replacement (excluding warehouse) at reasonable intervals. All such services will be according to said Rules and Regulations (Exhibit B). Except for the Landlord's negligence thereof, Landlord shall not be liable for any damages caused thereby, or for stoppage or interruption of any of said services mentioned in this paragraph caused by maintenance, labor disturbances or labor disputes of any character, accidents, improvements, or by repairs, wars, riots, acts of God, or other causes beyond the reasonable control of Landlord, nor shall Landlord be liable under any circumstances, except for Landford's negligence for loss of or injury to persons or property, however occurring, through or in connection with or incidental to the furnishing of any of the foregoing, nor shall any such failure relieve Tenant from the duty to pay the full amount of rent herein reserved or constitute or be construed as a constructive or other eviction of Tenant. If Tenant shall install any electrical equipment requiring power in excess of that required for normal office use, Landlord reserves the right to increase Tenant's rent by the amount of the cost of such excess power, and Landford may install a meter in the Premises at the expense of the Tenent so as to measure the amount of electricity consumed by Tenent. Air conditioning as may be reasonably required for the comfortable occupation of the Premises will be furnished by Landlord during normal operating hours as specified in said Rules And Regulations as attached hereto as Exhibit B; provided that Tensort agrees that if air-conditioning equipment shall fall or break down, Landlord's obligation to so furnish shall be limited to taking resconsible steps to repair or replace the same so as to restore such service. If the Tenant shall request air- conditioning service during any hours not specified in said Rules and Regulations, the Tenant shall be responsible to pay the Landiord the excess cost of operation of the air-conditioning system resulting from such additional service.

9. COMMON AREA MAINTENANCE:

The Landlord will use reasonable efforts to maintain the public and common areas of the Building in good order and condition except for any damage occasioned by the act or omission of Tenant or Tenant's employees or agents and except as is otherwise provided herein.

10. DAMAGE TO BUILDING:

(a) In case the Building or any portion of the Building is destroyed or damaged by fire or other casualty not caused by the fault or negligence of Tenant or its employees, agents, invitees or others under its control, making the Building or the Premises untersantable for any period in excess of ten (10) days, Landford may, at Landford's option, exercised by written notice to Tenant within thirty (30) days from the date of such casualty, elect to terminate this Lease or to repair said damage. If the Building shall have been totally destroyed or if Landford does not so elect to repair said damage, this Lease may be terminated by either party as of the date of said.

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casualty by written notice to the other. In the event of such termination, Tenant shall forthwith surrender the Premises and shall be relieved of all liability accruing after the date of termination, and Landlord shall have no further liability or obligation hereunder. If such destruction occurs and this Lease is not so terminated by Landlord, this Lease shall remain in full force and effect and Landlord and Tenant waive the provisions of any law to the contrary. Landlord's obligations under this paragraph shall in no event exceed the scope of the original construction of the Building of which the Premises are a part. Tenant agrees that during any period of reconstruction or repair of the Premises and/or the Building, Tenant shall continue the operation of Tenant's business in the Premises to the extent reasonably practicable from the standpoint of good business. If Landlord elects to repair said damage, Tenant shall be entitled to an abatement of the rent psyable pursuant to Paragraph 1(e), or a fair and just proportion thereof, according to the nature of the damage sustained and the part or parts of the Premises affected, until said damage has been repaired.

- (b) If Landlord's decision under Paragraph 10(s) to repair damage to the Building or any portions of the Building shall affect access or services essential to the Premises, Landlord shall have the option to repair only such portions of the Building which affect access or services essential to the Premises and, in such case, Tenant and not Landlord shall be responsible to repair all damage to the interior of the Premises and any improvements, alterations and additions therein as may have been caused by such casualty, and to the extent that the Premises are not fit for occupancy or use by reason of damage which Tenant is obligated to repair hereunder, any abatement of rent to which Tenant would otherwise be entitled hereunder shall not extend later than the time by which Tenant ought to have completed such repairs with reasonable diligence. In conducting such repairs, Tenant shall comply with the provisions of Paragraph 16.
- (c) If Landlord's decision under Paragraph 10(a) to repair damage to the Building or any portion of the Building shall affect access or services essential to the Premises, Landlord shall have the option to terminate this Lease if Landlord is unable to obtain the necessary labor and materials or if Landlord is unable to perform such obligation due to any cause beyond its control, including but not limited to strikes, lockouts, labor disturbances, acts of civil or military authorities, restrictions by governmental authorities, restrictions by municipal ordinances or federal and state statutes and military activity, riots or civil commotions.

11. CONDEMNATION:

- (a) Termination of Lease as to Portion Taken. Unless otherwise terminated hereunder, if the Premises or any part thereof or interest therein be taken by condemnation (other than a temporary taking which is provided for in Paragraph 11(e)), this Lease shall terminate as to the part so taken as of the time possession thereof shall vest in the condemner or title thereof shall vest in the condemner, whichever shall first occur.
- (b) Landford's Option to Terminate. If (i) the Premises or any part thereof or interest therein is taken by condemnation or (ii) a substantial portion of the Bullding is taken by condemnation, then in any such event stated in (i) or (ii), Landford shall have the right to terminate this Lease by giving Tenant a written notice of termination within sixty (60) days after such taking. Any such termination shall be effective as of the last day of the calendar month next following the month in which such notice is given.
- (c) Reduction of Rental. If part of the Premises is taken by condemnation (other than a temporary taking which is provided for in Paragraph 11(e)) and Landford does not terminate this Lease as provided herein, then this Lease shall continue in full force and effect as to the part of the Premises not taken and the rent herein shall be reduced, as of the date of such taking, in the same proportion as the usable floor area of the Premises shall have been reduced as a result of such taking. On any such termination the rent and other charges, if any, payable hereunder shall be provated as of the date of such termination, provided that rent shall be payable by Tenant to Landford for any holdover tenancy according to the provisions of Paragraph 11 of this Lease.
- (d) Right to Compensation. In the event of any taking specified in Subparagraphs 11(a) or 11(b) above, all compensation and damages payable or to be paid for or by reason of such taking shall be payable to and be the sole property of Landford without any apportionment to Tenant, and Tenant hereby assigns to Landford any right to compensation or damages for its leasehold interest in the Premises condemned. Termination of this Lease by Landford pursuant to Subparagraph 11(b) shall not affect the respective rights of the Landford and Tenant to compensation and damages and Tenant shall not hereby be prevented for filing any claim for the taking of any flutures in which Tenant claims an interest and for moving expenses.
- (e) Taking for a Limited Period. If the Premises or any part thereof shall be taken by condemnation for a limited period, this Lease shall not terminate and Tenant shall continue to pay in full the rent provided for herein, in the manner and at the times herein specified and, except only to the extent that Tenant is prevented from so doing by reason of any order of the condemning authority. Tenant shall continue to perform and observe all of the other covenants, agreements.

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terms and provisions of this Lease as though such taking had not occurred. In the event of any such taking, Tenant shall be entitled to the entire amount paid by the governmental authority with respect to governmental occupancy of the Premises during the term of the Lease (whether paid by the authority as damages, rent or otherwise), and in the event any such governmental occupancy extend beyond the date of termination of this Lease, all such amount paid by the governmental authority shall be prorated as of the date of termination of this Lease; provided, however, that Landlord shall have a lien on all amounts payable to Tenant and may require Tenant to assign to it the same, to be held without interest, as security or the payment of rent and other sums payable by Tenant to accrue during the period. Tenant covernants that at the termination of any such limited or specified period prior to the expression or earlier termination of this Lease, Tenant will, at it sole cost and expense, restore the Premises and improvements therein as may be reasonably possible to the condition which the same were prior to such taking.

12. HOLDING OVER:

If the Tenant shall hold over the termination of this Leese, and shall not have agreed in writing with the Landlord upon the terms and provisions of a new lease prior to such termination, all the terms, coverants and agreements hereof shall continue to apply and bind Tenant so long as Tenant shall remain in possession, insofar as the same are applicable, except that if Tenant remains in possession without Landlord's written consent, the monthly rent shall be two (2) times the monthly rent payable for the last month of the term hereof, proreted on a daily basis for each day that Tenant remains in possession, and Tenant shall also be liable to Landlord for any damages resulting from failure to surrender possession, and if Tenant remains in possession with Landlord's written consent, such tenancy shall be from month to month, terminable by either party by not less than twenty-eight (28) days' written notice.

13. LIENS:

- (a) Tenant shall keep the Premises and the Building free from any liens, encumbrances, proceedings or threatened actions involving liens, arising out of any work performed by or for Tenant, materials furnished by or for Tenant, or obligation incurred by or for Tenant, and shall indemnify and hold Landlord harmless from all costs and expenses whatsoever, including attorneys' fees, incurred by Landlord should Tenant fall to do so. Tenant shall be deemed to include Tenant, Subtenant, or any person or entity holding by, through, or under Tenant. Landlord shall have the right to appear and defend against any proceeding or threatened proceeding under this paragraph and Tenant shall indemnify Landlord for all costs and expenses relating thereto.
- (b) If Tenant desires to contest any claim of lien, it shall within fifteen (15) days after the filing of the lien for record furnish Landlord with cash security in the amount of one hundred fifty percent (150%) of the claim of lien or shall furnish Landlord with a bond of a responsible corporate surety in the same amount conditioned upon the discharge of the lien. Nothing contained herein shall prevent Landlord, at the cost and for the account of Tenant, from obtaining and filling a bond conditioned upon the discharge of such lien, in the event Tenant fails or refuses to furnish the same within said fifteen (15) day period.
- (c) Immediately upon entry of final judgment, in any such action in which Tenant contests any such claim of lien, and if such final judgment shall establish the validity of the lien, or any part thereof, and within fifteen (15) days after the filing of any lien for record which Tenant does not contest, and in any event, prior to execution sale, Tenant shall fully pay and discharge such judgment or lien, as the case may be, and Tenant shall reimburse Landlord upon demand for any and all loss, damage and expense, including reasonable attorney's fees, which Landlord may suffer or be put to by reason thereof. Nothing contained herein shall prevent Landlord, at the cost and for the account of Tenant, from satisfying any such judgment or lien, as the case may be, in the event Tenant falls or refuses to satisfy the same as herein provided.

14. DEFAULT AND RE-ENTRY:

This demise is upon the express condition that:

- (a) If Tenant shall fall to pay rent or additions to rent, or any deposit or any sum otherwise to be paid or reimbursed to landlord under this Lease, or any part hereof, within ten (10) days after the same becomes due, whether the same shall not have been legally demanded, or
- (b) If Tenant shall fall to observe or perform any of the other covenants herein contained and on Tenant's part to be observed and performed, and such default shall continue for fifteen (15) days after written notice thereof given to Tenant, or if such default in observance or performance of such other covenant cannot reasonably be cured within said fifteen (15) day period, then such longer time as may be required, provided that Tenant shall within said period commence such cure and thereafter diligently prosecute the same to completion, or

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- (c) If Tenant shall vacate or shandon the Premises, or
- (d) If Tenant's interest in this Lease, or any estate or interest of Lessee hereunder shall be sold under any attachment or execution, or
- (e) Subject to the provisions of Paragraph 13 above, if any mechanics' or materialmen's items shall attach to the Premises or Tenant's estate or interest therein and shall not be discharged or released within five (5) days after the entry of any order by a court of competent jurisdiction permitting the filling of such lien, and in any event prior to any sale or foreclosure, or
- (f) If there shall be any attachment, execution or other judicial seizure of this Lease or any estate or interest of Tenant hereunder, or
- (g) If Tenent assigns or sublets the Premises or any portion thereof or any interest without Landlord's prior written consent under the terms of this Lease, or
- (h) If there shall be any unauthorized construction on the Premises or any substantial deviation on Tenant's work from the plans and specifications approved by Landlord without Landlord's prior written approval, or the appearance of defective workmanship or materials, which said deviations or defects are not corrected within ten (10) days after written notice thereof, or
- (i) If any material written representation or warranty contained herein or any material written representation to Landford concerning the financial condition or credit standing of either Tenant or any party obligated to Landford under any agreement guaranteeing performance of any of the obligations of Tenant referred to herein proves to be false or misleading.
- Landford may in any such event at once terminate the services provided to Tenant under Paragraph 8 and the parking privileges provided to Tenent under Paragraph 47 and may at once re-enter the Premises or any part thereof in the name of the whole and, upon or without such entry, at its option, terminate this Lease and may expel and remove from the Premises Tenant and any persons claiming under Tenant and its and their effects without being deemed guilty of any trespass or becoming liable for any loss or damage occasion thereby, all without service of notice or legal process and without prejudice to any other right or remedy of action including summary possession, which Landlord may have for rent or any other indebtedness owing by Tenant hereunder, whether theretofore or thereafter accruing or to accrue or damages for any proceeding or other breach of contract. Whether or not Landford shall have taken any action above permitted, Landford may bring an action for summery possession in case of such default, and in any such action service of prior notice or demand is hereby expressly waived. In the event of such resumption of possession by Landlord under this Lease, whether by summary proceedings or by any other means, Landlord, or any receiver appointed by a court having jurisdiction, may disposees and remove all persone and property from the Premises, and any property so removed may be stored in any public warehouse or elsewhere at the cost of and for the account of Tenant, or it may be retained or sold at public or private sale by Landlord and the proceeds applied toward rent and additions to rent due from Tenant under this Lease, and for this purpose Tenant hereby grants Landford a lien in all such property and Tenant does hereby appoint Landford as his attorney-in-fact to conduct such sale. Landford shall not be responsible for the care or safekeeping of such property, and Tenant hereby waives any and all loss, destruction, and/or damages or injury which may be occasioned in the exercise of any of the aforesaid acts. Landford may recover from Tenant all damages, attorneys' fees and costs which may have been incurred by Landlord as a result of any default of Tenant hereunder, including the expense of recovering possession.
- No re-entry or taking possession of the Premises by Landlord shall be construed as an election on Landlord's part to terminate this Lease, unless a written notice that this Lease is terminated is given by Landlord to Tenant, or an order is secured stating that the lease is terminated. The effective date of termination of this Lease shall be as of the date set forth or provided in the notice or order aforementioned, as the case may be. Landlord may from time to time without terminating this Lease, relet for the account of Tenant the Premises or any part thereof, for all or any portion of the remainder of said term to a tenant or tenants satisfactory to Landford, and at such rental or rentals as may, in the exercise of reasonable efforts be obtained, with the right of Landlord to put the Premises in good order and condition and to make reasonable alterations and repairs to facilitate such reletting at Tenant's expense, and Landford shall receive such rentals and apply them, first to the payment of the expense of recovering possession of the Premises and the rerenting thereof, including without limitation, all attorneys' fees and broker's commissions, together with such expense as Landlord may have incurred in putting the Premises in good order and condition or in making such alterations and repairs, and then to the payment of the rent due by these presents and to the fulfillment of the covenants of Tenant, the balance, if any, to be paid over to Landford, as additional rent, provided that Tenant shall remain liable for any deficiency, which deficiency Tenant agrees to pay monthly as the same may accrue. Notwithstanding any such reletting without termination, Landlord may at any time thereafter elect to terminate this Lease for such previous breach.

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- In the event of this Lease being terminated by Landford by reason of any breach thereof by Tenant or because of any other event entitling Landlord to so terminate as hereinabove set forth, Landlord, at Landlord's option, shall thereupon be entitled to recover from Tenant all damages Landlord may incur by reason of such breach, including the cost of recovering the Premises, reasonable attorney's fees, and including a sum equal to the excess, if any, of the then cash value of rent payable hereunder by Tenant for the balance of the stated term, over the then reasonable rental value of the Premises at the time of such termination for the same period and on the same terms, except as to rent, as herein set forth to the extent reasonably applicable. The cause of action for such damage shall accrue upon termination. On any termination of this Lease under the provisions of this paragraph Tenant shall, without limitation as to any other liability to Landlord hereunder, become liable to Landlord for the then unamortized portion of any broker's or real setate agent's commission paid by Landford for or in connection with the execution of this Lease (amortization to be computed on a straight-line basis over the full term hereof). It is further understood that each and all of the remedies given to Landford hereunder are cumulative and that the exercise of one right or remedy by Landford shall not impair Landlord's right to any other remedy. Following any default, if Landlord shall bring an action for summary possession, then Tenant hereby agrees to submit irrevocably to the jurisdiction of the District Court of the First Circuit of the State of Hewell and said District Court shall have the exclusive jurisdiction to decide Landford's action for summary possession.
- (m) Upon the occurrence of a default under this Lease, if the Premises or any part thereof are then sublet under a sublease to which Landlord has consented, Landlord, in addition to any other remedies provided in this Lease or provided by law, may at its option collect directly from such sublease all rents becoming due to Tenant under such sublease and apply such rent against any sums due to Landlord from Tenant under this Lease, and no such collection shall be construed to constitute a novation or release of Tenant from the further performance of Tenant's obligations under this Lease.

15. RIGHT TO ISSUE A NEW LEASE TO A THIRD PARTY:

Should Landlord elect to re-enter and take possession of the Premises, as hereinbefore provided, or should Landford take possession pursuant to legal proceedings or pursuant to any notice provided for by law, Landford may either terminate this Lease, or Landford may from time to time without terminating this Lease make such alterations and repairs as may be necessary to grant another lease to a third party for the use of said Premises or any part thereof for such term or terms (which may be for a term extending beyond the Term of this Lesse) and at such rent and upon such other terms and conditions as Landford in its sole discretion may deem advisable; upon each such granting of a new lease all rent received by Landford from said third party shall be applied, first, to the payment of any indebtedness other than rent due and unpaid hereunder from Tenent to Landlord; second, to the payment of any costs and expenses incurred in issuing a new lease, including brokenage fees, attorneys' fees and costs of such atterations and repairs; third, to the payment of rent due and unpaid hereunder. If such rent received from said third party during any month is less than that required to be paid during that month by Tenant hereunder, Tenant shall pay any such deficiency to Landlord hereunder, Tenant shall pay any such deficiency to Landford before the end of such month. No such re-entry or taking possession of the Premises by Landford shall be construed as an election on its part to terminate this Lease unless a written notice of such intention is given to Tenant or unless the termination thereof is decreed by a court of competent jurisdiction. Notwithstanding the issuance of a new lease to a third party without termination, Landlord may at any time thereafter elect to terminate this Lease for such previous breach.

16. REPAIRS AND ALTERATIONS:

(a) Tenant agrees by taking possession of the Premises that the Premises are then in a tenantable and sanitary order and good condition and repair. By entry hereunder, Lessee accepts the Premises in its "as is" condition, and accepts all risks with respect thereto. Tenant shall at Tenant's sole cost and expense, keep and maintain the Premises in good and clean condition and repair. Tenant shall not alter, improve or change the Premises without the prior written consent of Landford. When applying for any such consent, Tenant shall furnish complete plans and specifications and a building permit covering the desired additions or alterations unless the cost thereof shall be less than ONE THOUSAND DOLLARS (\$1,000). All construction, additions and alterations by Tenant shall conform to all applicable governmental laws, rules and regulations and to the specifications shown in Exhibit C to this Lesse. The Tenant will pay to Landlord a reasonable fee for review and approval of said plans and specifications including any fees charged by an architect or engineer employed by Landlord for such review.

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- (b) Before commencing construction of any alteration, improvement or change in the premises, Tenant shall deposit with Landlord a bond in a penal sum not less than the cost of such construction and in form and with surety satisfactory to Landlord guaranteeing the completion of such construction, free and clear of all mechanics' and materialmen's liens, together with such information and evidence as Landlord may reasonably require to assure that Tenant is able to and will make all payments required by contact to be made as and when Tenant is required to do so. Landlord may elect to remove any lien or encumbrance resulting from work performed in the Premises by cash deposit or bond pursuant to the provisions of the Hawaii Revised Statutes, as amended, and Tenant shall forthwith pay Landlord, as additional rent, twice the amount of all costs incurred by Landlord in providing the cash deposit or bond necessary to remove such lien or encumbrance.
- (c) All repairs to the structure of the Building necessary to maintain the same in good condition shall be done by or under the direction of Landlord and at Landlord's expense except as otherwise specifically provided herein, and Landlord or its designess may enter the Premises during Tenents business hours to make such repair. Landlord shall have no obligation to repair the interior of the Premises or any improvements, alterations and additions therein except as otherwise specifically provided herein.
- (d) Tenant shall not put any curtains, draperies or other hangings on or beside the windows in the Premises and shall not make changes to locks on doors or add, disturb or in any way change, any plumbing, air-conditioning system or wiring without first obtaining Landlord's written consent. Tenant shall paint the interior surfaces of the Premises at least once during each five (5) year period of the term hereof with a color approved by Landlord.
- (e) All repairs to the Premises necessary to maintain the Premises in a tenantable and good condition shall be done by or under the direction of Landford and at Tenant's expense, except as otherwise specifically provided herein. All damage or injury done to the Premises by Tenant or by any persons who may be in or upon the Premises shall be paid for by Tenant and Tenant shall pay for all damage to the Building caused by Tenant's use of the Premises or the appurtenances thereto. Without limiting the generality of the foregoing, Tenant shall pay for the replacement of doors or windows of the Building. Damage to all glass and to any plate glass, both exterior and interior, of the Premises shall be at the risk of the Tenant; interior glass and plate glass broken during the Term shall be promptly replaced by Tenant at the expense of Tenant. Tenant will not damage or deface the walls, floors or cellings, nor damage any common areas or facilities, nor commit any act which may damage the structural parts of the Building.
- (f) Landford may make any repairs, alterations or additions which Landford may deem necessary for the preservation, safety or improvement of the Premises or the Building or to comply with any laws, codes, regulations or ordinances now or hereafter in effect; and if such is done to comply with a requirement of any such law, code, regulation, or ordinance hereafter enacted, then Tenant shall pay the cost of such alterations or additions as additional rent in Tenant's proportional share of building operating expenses as outlined in Paragraph 1(e) and Paragraph 40 hereof. It is specifically understood and agreed, however, that Landford has made no promises to alter, remodel, improve, repair, decorate or paint the Premises, or any part thereof, and that no representations respecting the condition of the Premises or the Building of which the Premises are a part have been made by the Landford to Tenant.
- (g) All improvements, alterations and additions in or upon the Premises (except signs and trade fixtures erected or placed upon the Premises by Tenant which are removable without damage of any kind to the Premises or the Building), shall become the sole and exclusive property of Landlord upon installation.
- (h) Any diminution or shutting off of light or air by any structure which may be erected adjacent to the Building of which the Premises are a part, whether by Landlord or others, shall in no wise affect this Lease or impose any liability on Landlord or be construed as a constructive eviction or grounds for the reduction of rent.

17. TENANT'S CONSTRUCTION AND BOND:

(a) Tenant shall, at its cost, in accordance with plane and specifications therefor first approved in writing by Landlord, construct and install such improvements and fixtures and provide such equipment and do all other things required to complete the Premises in a finished condition ready for the conduct of Tenant's business at the Premises; and Tenant will, before commencing any such construction, provide Landlord with a true copy of Tenant's building permit and show evidence satisfactory to Landlord that Tenant has sufficient current funds to pay for the entire cost of construction and post with Landlord a contract performance and labor material payment bond or bonds with corporate surety satisfactory to Landlord in the penal sum equal to one hundred percent (100%) of the cost of construction guaranteeing the completion

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thereof free from any mechanics' or materialmen's lien. Any such construction or alterations shall strictly comply with all applicable laws, ordinances, codes and regulatione. All fixtures installed by Tenant will be new or completely reconditioned. Tenant shall keep the Premises free from any mechanic's or materialmen's lien, or any charge or encumbrance whatsoever. Any violation of any of the foregoing provisions shall be considered a material default of this Lease.

(b) If the use set forth in Paragraph 1(h) of this Lease permits Tenant to operate the Premises as a restaurant or other business involving the operation of a kitchen or food preparation, to the extent the same has not already been installed, Tenant shall provide, install and maintain in its kitchen or food preparation facilities any exhaust system and fire extinguisher system required by the laws and ordinances of the City and County of Honokulu and reasonably satisfactory to Landlord. Tenant shall maintain the existing exhaust system and fire extinguisher system in good operating order and in the same condition as at the inception of the Tenant's expense, a unless otherwise required by law. Tenant shall also provide and install, at Tenant's expense, a sufficient number of grease traps to prevent Tenant's operations from clogging the sewer lines from the Premises and Building.

18. SUBSTITUTION OF LEASED PREMISES:

At any time or times during the term Landlord shall have the right, at its option, to substitute as the Premises to lease hereunder, a substantially equivalent area in a different portion of the Building, in lieu of the Premises described and referred in Subparagraphs 1(a), (b) and (c), and in such cases Tenant shall relocate to such substitute Premises, and all of the terms, covenants and conditions herein set forth shall then apply to such substitute premises to the same effect as if originally described hereinabove; provided, however, that Landford shall have given Tenant written notice of its exercise of such option at least ninety (90) days prior to the date upon which relocation to such substitute Premises is to be accomplished, and all costs of such relocation shall be borne by Landlord, including the cost of relocating or replacing any features or other improvements installed within the original Premises by Tenent; and provided, further, that no more than one such relocation shall be made without the prior written concert of Tenant. It is further understood that the term "equivalent area" shall mean an area of substantially the same Net Usable Area and having substantially the same number of exterior windows, and if not on the same floor level, then on either a floor on a level immediately below or on a floor on any level above the level of the original Premises. Tenant shall be entitled to a ratable reduction in Base Flent for any period in excess of one (1) day during which Tenant is reasonably prevented from operating its business on account of such relocation. Upon Landford's request, Tenant shall immediately execute an appropriate amendment to this Lease reflecting any such substitution.

19. INSPECTION OF PREMISES; ACCESS:

Landford and Landford's managing agent may retain a passkey to the Premises, and Landford, its employees, managing agent, janitors, workmen and engineers may use said passkey to enable them to, and they may, inspect and examine the Premises from time to time with reference to any emergency or to the general maintenance of the Premises, or for the purpose of cleaning, repairing, altering or improving the Premises or the Building. Tenant will repair and make good (within thirty (30) days of receipt of written notice by Tenant) all defects which Tenant is obligated to do under the terms of this Lease and of which notice shall be given by Landlord, as set forth in Paragraph 42. Without in any manner obligating Landford to do so, Tenent will also permit Landford and Landford's agents to have access to the Premises during tenants business hours for the purpose of making repairs, posting such notices as it may deem necessary for Landlord's protection or for the protection of the Premises, for the purpose of repossessing the Premises as herein provided and/or for the purpose of showing the Premises to prospective tensitis, purchasers, mortgagess and/or others, and Landford shall not be liable for damages resulting to Tensit from such exercise of the right of entry, and the rent stipulated hereunder shall not abate during the period of such entry, nor shall Tenant be entitled to maintain a setoff or counterclaim for damages against Landford by reason of loss or interruption of business of Tenant because of the prosecution of any such repairs. When reasonably necessary, Landford may close entrances, doors, corridors and elevators or other facilities without liability to Tenant by reason of such closure and without action by the Landford being construed as an eviction of Tenant or relieving the Tenant from the duty to observe and perform Tenant's obligations under this Lease.

20. SURRENDER OF PREMISES:

At the expiration or sooner termination of this Lease, Tenant will peaceably and quietly leave and surrender and deliver to Landlord, possession of the Premises together with all improvements, alterations or additions in or upon the Premises or belonging to the same, by whomsoever made, in good repair, order and condition except as otherwise expressly provided herein and Tenant shall surrender all keys for the Premises to Landlord at the place then fixed for the payment of rent, and shall inform Landlord of all combinations on locks, safes and vaults, if any, in the Premises; provided, however, that if Landlord shall so require, notice thereof to be given not less than sixty (60) days prior to the end of the term hereof, Tenant shall remove prior to the termination of this Lease all improvements, alterations, additions, fixtures and personal property made or placed upon the Premises, as specified in

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such notice by Landford, and Tenant shall replace and repair all damage to the Premises caused by or resulting from such removal and leave the Premises in a clean and orderly condition. In the event Tenant shall fall to perform such removal and/or restoration in accordance with requirements hereof, Landlord may do so. Tenant, upon demand, will pay to Landlord the cost thereof, plus interest at the rate of one and a half percent (1.5%) per month from the date the same be demanded by Landford until paid. This obligation shall survive the termination of this Lease. Any personal property left upon the Premises by Tenant at the termination of this Lease may, at the option of the Landlord be removed and stored by Landford, at the cost of and for the account of Tenant, or be deemed and declared by Landlord to have been abandoned by Tenant, in which case Landlord may appropriate, destroy or dispose of the same without liability or accountability to Tenant. If Tenant shall fail to remove all effects from said Premises upon termination of this Lesse for any cause whetsoever, Landford may, at its option, remove the same in any manner that Landlord shall choose, and store said effects without liability to Tenant for loss thereof, and Tenant agrees to pay Landlord on demand any and all expenses incurred in such removal, including court costs and attorneys' fees and storage charges on such effects for any length of time the same shall be in Landlord's possession, or Landlord may, at its option, without notice, sell said effects, or any of the same, at private sale and without legal process, for such price as Landlord may obtain and apply the proceeds of such sale to payment of any amounts due under this Lease from Tenant to Landlord and for the expense incident to the removal and sale of said effects.

21. ACTION OR SUIT:

Tenant also agrees to pay all costs and expenses and reasonable attorneys' fees which may be incurred or paid by Landlord in enforcing any of the coverants, conditions or agreements contained in this Lesse, in remedying any breach thereof by Tenant, in recovering possession of the Premises, in collecting any delinquent rent, taxes or other charges hereunder psyable by Tenant, or in connection with any litigation commenced by or against Tenant (other than condemnation proceedings) to which Landlord without any fault on its part shall be made a party and all such amounts shall be deemed additional rent psyable upon demand. Tenant agrees that if Landlord is involuntarily made a party to any litigation concerning this Lesse or the Premises or the Building by reason of any alleged act or omission of Tenant, Tenant's employees, agents, licensees and invitees, and not because of any act or omission of Landlord, the Tenant shall indemnify and hold Landlord harmless and indemnify if from and against all liability by reason thereof, including but not limited to reasonable attorneys' fees incurred by Landlord in such litigation and all taxable costs.

22. ASSIGNMENT AND SUB-LETTING:

Tenant will not self, assign, transfer or mortgage this Lease or any interest hereunder, nor may any assignment hereof by operation of law be made and Tenant will not sub-rent or sub-let the Premises or any portion thereof, and will not permit the use of occupancy of the Premises by other than Tenant and the agents and employees of Tenant, without first obtaining the written consent of Landlord; provided, however, that such consent shall not be unreasonably withheld, nor any fee be charged therefore except for reasonable attorneys' fees incurred by Landlord in the preparation or review of any document relating thereto and any other expenses reasonably incurred by Landlord in connection therewith. No consent in one instance shall prevent this paragraph from applying to a subsequent instance. Any assignment or sublease made in violation of the provisions of this paragraph shall be void and of no force or effect whatsoever.

23. CONTINUING LIABILITY:

No permitted assignment, mortgage, pledge, encumbrance or sublease of Tenant's interest in the Premises shall in any way release Tenant from any liability or responsibility assumed by Tenant under this Lease.

24. CHANGE OF CONTROL:

If at any time during the term hereof the ownership of Tenant's business shall be changed as a result of any sale of assets, sale of stock, merger, consolidation, liquidation or any change in the ownership of power to vote the majority of Tenant's outstanding voting stock or change in general partnership interests or otherwise so as to result in a change in the controlling interest in said business. Tenant shall give immediate notice thereof to Landlord and Landlord may terminate this Lease at any time after receipt of such notice of auch notice shall not be given, after discovery by Landlord of such change in controlling interest by giving Tenant sixty (80) days' written notice of such termination unless Tenant shall furnish assurance satisfactory to the Landlord that there has been no reduction in the financial responsibility of Tenant as a result of the change.

25. NON-LIABILITY OF LANDLORD:

Tenant will and hereby does assume all risk of loss or damage either to person or furniture, fixtures, supplies, merchandies, and other property, by whomsoever owned, stored or placed in upon and about the Premises and does hereby agree that Landford will not be responsible for loss or damage to any such person or property, unless caused by the negligence of Landford, and Tenant

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hereby agrees to indemnify and save harmless Landford from and against any and all claims for such loss or damage, other than damage caused by the negligence of Landlord or arising out of a defect which Landlord is required hereunder to repair and has failed to remedy within a reasonable time after having been given notice in writing thereof. Without prejudice to the generality of the foregoing, Landford shall not be liable for any damage to any property at any time stored or kept in the Premises or in any other part of the Building, either from rain or from any other water which may leak, issue or flow from any part of the Building, or from the pipes or plumbing of the same or from any other place or quarter, due to the Building, or any part thereof, or any appurtenances thereof, becoming out of repair, or due to any act or neglect of any tenant or occupant of said Building, or of any other person, nor shall Landford be liable for any damage to property in the Building caused by accident involving the elevators, or for damage of any character arising out of defects of construction either of the Building, or the Premises or any machinery, equipment, electrical wiring or facility therein or failure or breakdown thereof or from lack of repair or proper operation of the same or from any other cause, unless the cause be due to Landford's negligence or be a defect which Landford is required hereunder to repair and shall have failed to remedy within a reasonable time after written notice thereof. This provision shall apply especially (but not exclusively) to damage caused by water, steam, sewage, illuminating gas, sewer gas, utilities shortages or stoppages, odors or termities or the negligent accumulation of combustible materials, accessories and supplies, and shall apply equally whether such damage is caused by the act or neglect of other tenents, occupants or janitors of said Building, or of any other persons, and whether such damage is caused or occasioned by anything or circumstances above-mentioned or referred to, or by any other thing or circumstance, whether of a like or of a wholly different nature. If any such damage shall be caused by any act or neglect of Tenant, Landlord may, at its option, repair such damage, whether caused to the Building, or to tenants thereof, and Tenant shall thereupon reimbures Landlord for the total cost of such damage both to the Building and/or to the tenants thereof. Tenant further agrees that all personal property upon the Premiees shall be at the sole risk of Tenant and that Landford shall not be liable for any loss, injury or damage thereto or theft thereof, except for the Landlord's negligence thereof. Tenant shall give to Landlord prompt written notice of any accident to, or defect in, any water or other pipes or plumbing, electric lights or fixtures or other equipment or appurtenances of the Premises.

26. INDEMNITY AND RISK OF INJURY:

Tenant will and does hereby assume all risk of property damage and personal injury or wrongful death occasioned by any nuisance made or suffered in or about the Premises, or resulting from any failure on the part of Tenant to maintain the Premises or any part thereof in a safe, clean and orderly condition. Tenent hereby agrees to indemnify, defend and hold hermises Landlord and Landlord's officers, employees and agents from and against any and all claims for property damage and personal injury or wrongful death by third persons (including without limiting the generality of said term, officers, employees or agents of Tenant or Landlord) arising out of, caused by, occasioned by or resulting from any such accident, fire, nulsance, or falture to maintain, except where such injury or death is caused by the negligence of Landlord. Tenent will indemnify and save harmless Landlord and Landlord's officers. employees and agents against and from any and all claims by or on behalf of any person or persons. firm or firms, corporation or corporations, arising from the conducts or management of any work or thing whatsoever done by Tenant in or about, or from transactions of Tenant concerning the Premises. Tenant will further indemnify and save Landford harmless against and from any and all claims arising from any breach or default on the part of Tenant in the performance of any covenant or agreement on the part of Tenant to be performed pursuant to the terms of this Lesse, or arising from any act or negligence of Tenent, or any of its agents, contractors, servants, employees, or licensees and from and against the costs, attorneys' fees, expenses and liabilities incurred in or about any such claim of any action or proceeding brought thereon.

27. LAWS AND ORDINANCES INDEMNITY:

- (a) Tenant shall, during the whole of said Term, keep the Premises in a strictly safe, clean and sanitary condition and observe and perform all laws and ordinances applicable to the Building and improvements now or hereafter erected on the Premises, all laws, ordinances, rules and regulations relating to health and sanitation for the time being applicable to the Premises (including, without limitation, any applicable rules and regulations of the Honokulu Liquor Commission), and will indemnify, defend and hold harmless Landord, its partners, employees, agents, successors and assigns from and against all claims, actions, suits, damages, costs and expenses, including attorneys' fees by whomsoever brought or made by reason of the nonobservance or nonperformance of said laws, ordinances, rules, regulations and requirements or of this covernant and will reimburse Landord for attorneys' fees and for all other costs which Landford may incur in connection with the defense of any such claims.
- (b) Tenant, at its sole cost and expense, shall be responsible that the Premises, and all alterations and improvements made to the Premises by Tenant, and Tenant's use and occupancy of the Premises, and Tenant's performance of its obligations under this. Lease, comply with the requirements of the Americans with Disabilities Act of 1990 (42 U.S.C. 12181, et seq., The Provisions Governing Public Accommodations and Services Operated by Private Entities), and all regulations promulgated thereunder, and all amendments, revisions or modifications thereto now or hereafter adopted or in effect in connection therewith (hereinafter collectively referred to

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as the "ADA"), and to take such actions and make such alterations and improvements as are necessary for such compliance, provided, however, that Tenant shall not make any such alterations or improvements except upon Landford's prior written consent pursuant to the terms and conditions of this Lease. If Tenant falls to diligently take such actions or make such alterations or improvements as are necessary for such compliance, Landford may but shall not be obligated to take such actions and make such alterations and improvements and may recover all of the costs and expenses of such actions, alterations and improvements from Tenant as additional rent. Notwithstanding anything in this Lease contained to the contrary, no act or omission of Landford, including any approval, consent or acceptance by Landford or Landford's agents, employees or other representatives, shall be deemed an agreement, acknowledgment, warranty, or other representation by Landford that Tenant has complied with the ADA or that any action, alteration or improvement by Tenant complies or will comply with the ADA or constitutes a waiver by Landford of Tenant's obligations to comply with the ADA under this Lease or otherwise.

28. HAZARDOUS MATERIALS INDEMNITY:

- Tenant will keep and maintain the Premises in compliance with, and shall not cause or permit the Premises or the Building to be in violation of, any Hazardous Materials Laws (hereinafter defined), and shall not use, generate, manufacture, treat, handle, refine, produce, process, store, discharge, release, dispose of or allow any Hazardous Meterials (hereinafter defined) in, on or under the Premises or the Building in violation of any Hazardous Materials Laws. Tenant shall indemnify, defend and hold harmless Landlord, its partners, employees, agents, successors and assigns from and against any loss, damage, cost, expense or liability, direct or indirect, arising out of or attributable to the violation by Tenant of any Hazardous Materials Laws or the unlewful use, generation, manufacture, treatment, handling, refining, production, processing, storage, release, threatened release, discharge, disposal or presence of Hazardous Materials in, on or under the Premises or the Building by Tenant, including, without limitation, all foreseeable and unforeseeable consequential damages, the costs of any required or necessary repair, clean up or detoxification of the Premises or of the Building, and the preparation and implementation of any closure, remedial or other required plans. In addition to the foregoing, Tenant shall immediately advice Landlord, in writing, if Tenant at any time becomes aware of any violation of any Hazardous Materials Laws or of any claim made pursuant to any Hazardous Materials Laws in respect of the Premises or the Building.
- (b) For purposes of this Lease, the term "Hezardous Materials Laws" means and includes all federal, state or local laws, ordinances or regulations, now or hereafter in effect, relating to environmental conditions, industrial hygiene or Hazardous Materials on, within, under or about the Premises or the Building, including, without limitation, Chapter 342J of the Hawaii Revised Statutes, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 U.S.C. Section 9801, at sag., the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901, at sag., the Hazardous Materials Transportation Act, 49 U.S.C. Section 1251, at sag., the Clean Air Act, 42 U.S.C. Section 7401, at sag., the Toxic Substances Control Act, 15 U.S.C. Sections 2601 through 2629, the Safe Drinking Water Act, 42 U.S.C. Section 300f through 300j, and any similar federal, state or local laws or ordinances and the regulations now or hereafter adopted, published and/or promulgated pursuant thereto.
- (c) As used in this Lease, the term "Hazardous Materials" means and includes any and all radioactive meterials, asbestos, organic compounds known as polychlorinated biphenyls, chemicals known to cause cancer or reproductive toxicity, pollutants, contaminants, hazardous wastes, toxic substances, and any and all other substances or materials defined as or included in the definition of "hazardous substances", "hazardous wastes", "hazardous materials" or "toxic substances" under, or for the purposes of, the Hazardous Materials Laws.

29. ADVERTISING:

Tenant shall not inscribe any inscription or poet, place or in any manner display any sign, notice, picture, placard or poeter, or any advertising matter whatsoever, anywhere in or about the Premises or the Building at places visible (either directly or indirectly as an outline or shadow on a glass pane) from anywhere outside the Premises, except as permitted under the Rules and Regulations of the Building (Exhibit B).

30. RULES AND REGULATIONS;

Landlord, for the reputation, proper maintenance, safety, order and cleanliness of the Building, and for the rendering of good services, the protection and the quiet enjoyment of tenants, may from time to time make, amend and enforce rules and regulations appropriate for such purposes applicable to all lessees and tenants of the Building. The rules and regulations in force at the date hereof are those set forth in Exhibit B. Tenant shall observe and comply with all such rules and regulations,

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including those set forth in Exhibit B and all amendments thereto and all additional rules and regulations of which are not inconsistent with the terms of this Lease. A violation of any of said rules and regulations shall constitute a default by Tenant under this Lease. All such rules and regulations are of the essence hereof without which this Lease would not have been entered into by Landford.

31. SENIOR LIENS:

This Lease shall be subject and subordinate at all times to any ground lease on all or any part of the Building and to such liene and encumbrances as are now on or as Landlord may hereafter impose on the Building, the Premises or Landiord's interest therein, without the necessity of further instrument or act on the part of Tenant to effectuate such subordination. Tenant agrees to promptly execute and deliver any instrument that the holder of any such ground lease or lien holder may require to evidence such subordination, and Tenant hereby irrevocably appoints Landford its attorney-in-fact to execute and deliver such instruments on behalf of Tenant should Tenant refuse or fall to do so within ten (10) days after request is made. Said power of attorney is coupled with an interest and shall be irrevocable. If any purchaser of the Landiord's interest in the Building or if any lessor under such ground lease or such holder of a lien or purchaser on foreclosure of such lien shall lewfully require, Tenant shall attorn to it and this Lease shall then continue in effect in the event of such sale of the Landlord's interest in the Building or such termination of such ground lease or acquisition of the interest of Landlord by such lien holder or purchaser on forectoeure of such lien. Said liens shall include, without limitation, the lien of a mortgage executed in part to secure a loan to pay for the construction of improvements in or to the Building. Within ten (10) days after request therefore by Landlord, or, in the event that upon a sale, assignment or hypothecation of the land or improvements which comprise the Building by Landlord and estoppel or offset statement shall be required from Tenant, Tenant shall deliver to Landlord in recordable form a certificate to any purchaser, lesses under such ground lesse or mortgages under such mortgage, or to Landford, certifying (if such be the case) that this Lease is in full force and effect and that there are no defenses or offsets thereto, or stating those claimed by Tenant.

32. SUBORDINATION OF LEASE; ESTOPPEL CERTIFICATES:

- in the event any mortgages shall elect to have this Lease prior to or subordinate to its mortgage, then and in such event, upon such mortgages notifying Tenant to that effect, this Lease shall have priority over or be subordinate to the lien of such mortgage. Tenent covenants and agrees, in the event any proceedings are brought for the foreclosure of, or in the event of exercise of the power of sale under, any mortgage heretofore or hereefter made by Landford covering the Premises (and which may or may not also cover other premises), whether or not this Lease is terminated by such foreclosure or sale, that Tenant will, upon request by the purchaser, attorn to the purchaser upon any foreclosure or sale and recognize such purchaser as the landlord under this Lesse, it being the intent hereof that if this Lesse should be terminated by such foreclosure or sale, this Lease shall, upon request by the purchaser, be reinstated as a lease between the purchaser and Tenant, it being nevertheless understood that such purchaser shall not be liable for any act or omission of a prior landlord nor be subject to any offsets or defenses which Tenant may have against any prior landlord. Tenant, upon request of any party in interest, shall execute such instrument or instruments as shall be requested to carry out the requirements of this paragraph within thirty (30) days after receipt by Tenant of written request therefor, provided, however, that Tenant shall not be required to effectuate such subordination. nor shall Landlord be authorized to affect such subordination on behalf of Tenent, unless the mortgages named in such mortgage shall first agree in writing, for the benefit of Tenant, that so long as Tenent is not in default under any of the provisions, covenants or conditions of this Lease on the part of Tenent to be kept and performed, that neither this Lease nor any of the rights of Tenent hereunder shall be terminated or modified or be subject to termination or modification, nor shall Tenent's possession of the Premises be disturbed or interfered with, by an action or proceeding to foreclose said mortgage. In the event that Tenant falls to respond to such written request within thirty (30) days, Landlord shall have the right to execute such instruments on behalf of Tenent. Tenent hereby constitutes Landlord as Tenent's true and lawful attorney-in-fact, coupled with an interest, for purposes of the execution of the foregoing instrumenta.
- (b) Within fifteen (15) days of presentation, Tenant shall execute, acknowledge and deliver to Landlord (a) any subordination or non-disturbance agreement or other instrument that Landlord may require to carry out the provisions of this paragraph, (b) any agreement for attornment to a purchaser upon foreclosure, and (c) any estoppel certificate requested by Landlord from time to time in the standard form of any mortgagee or purchaser certifying in writing, if such is the case, that Tenant is in occupancy, that this Lease is unmodified and in full force and effect or that if there have been modifications that the same is in full force and effect as modified and stating the modifications, and the dates to which the rent and other charges shall have been paid, that there shall be no rental offsets or claims and certifying such matters as such mortgagee or purchaser may reasonably require.

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33. TAX ON RENT AND/OR GROSS RECEIPTS:

Tenent shall pay any conveyance tax imposed by the State of Hawali and execute, at Landlord's request, such affidavits and other documentation as may be necessary or proper in connection therewith. Tenent shall also pay to Landlord as additional rent, together with each payment of rental, real property taxes and other charges payable by Tenant hereunder, which are subject to the State of Hawali general excise tax on gross income, as the same may be amended, and all other similar taxes imposed upon Landlord with respect to rental or other payments in the nature of a gross receipts tax, sales tax, privilege tax or the like, excluding federal or state net income taxes, whether imposed by the United States, State of Hawali or City and County of Honolulu, an amount (presently 4.166% of each such payment) which when added to such rental or other payment shall yield to Landlord after deduction of all such tax payable by Landlord with respect to all such payments a net amount which Landlord would have realized from such payment had no such tax been imposed.

34. OTHER TAXES AND FEES:

In addition to the rental provided hereunder, Tenant agrees to pay all license fees and all taxes and assessments and increases in taxes and assessments levied and assessed by any government body by virtue of (a) any special improvements or assessments, (b) Tenant using and conducting its business or operation on the Premises, (c) the employment of agents, employees or other third parties, or (d) the bringing onto, or keeping of personal property or chattels of whatsoever nature on the Premises. The foregoing is intended to bind Tenant to pay, and to promptly discharge, all license fees, taxes, assessments and/or levies, together with related interest and penalties, whether assessed by federal or state authority or any political subdivision thereof, directly related to its business, improvements, functioning, employment, assets, extenence, sales, entertainment or the like. Tenant specifically agrees to reimburse Landford for any increase in ad valorem taxes resulting from use of fixtures or improvements by Tenant which Landford becomes obligated to pay.

35. INSURANCE:

- (a) Tenent shall, at Tenant's sole expense, maintain in full force and effect during the Lease term hereof and any subsequent lease extensions or renewals: (a) a policy of commercial general liability insurance with minimum limits of not less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000.00) insuring against claims for property damage, injury or death to any number of persons in any one accident or occurrence; (b) a policy covering any plate glass on or within the Premises; such insurance shall name the Landford as an additional insured and any other person that the Landford shall designate including but not limited to any Mortgagee of Landford's or Tenant's interest under this Lease. Such insurance shall be written by an insurance company authorized to do business in the State of Hawali and having a "Best" rating of "A" or better. Furthermore, the insurance described herein shall not be canceled, except upon thirty (30) days' prior written notice to Landford or such other persons as Landford shall designate.
 - (b) Tenant shall produre at its own expense and shall keep in full force and effect during the term of this Lease and any extension or renewal hereof insurance on all improvements, alterations, additions, fixtures by whomever installed by Tenant and/or its agents (including but not limited to all electrical, mechanical and other fixtures and equipment located above Tenant's ceiling, but below the concrete slab of the floor above, and below Tenant's flooring but above the concrete slab of the floor below, and Tenant's trade fixtures), and personal property in the Premises against loss or damage by fire, terroristic bombing, vandalism, malicious mischief, act of God and other casualty which insurance shall have provisions assuring against any peril included within the classification of fire and extended coverage, with an insurance company authorized to do business in the State of Hawaii having a "Best" rating of "A" or better, and, in time of war, against war damages to the extent such governmental insurance is obtainable at reasonable cost, in an amount of the full replacement value thereof. The Landford and such other persons as Landlord shall designate, including but not limited to any mortgages of either Landlord or Tenant, shall be named as additional insured, and Tenant will pay premiums on such insurance when due. In every case of loss or damage to such improvements, alterations, additions, fixtures by whomever installed, Tenant will, with all reasonable speed, use all proceeds of such insurance (excluding the proceeds of any business interruption insurance of Tenant) for rebuilding, repairing or otherwise replacing such improvements, alterations, additions, fixtures by whomever installed in a good and substantial manner in accordance with the provisions of Paragraph 14, and Tenant will make up from its own funds any deficiencies in such insurance proceeds for such rebuilding, repairing or otherwise replacing. Tenant is self-insured and shall be solely liable for any obligation required under this paragraph which would otherwise be covered by insurance.
- (c) If the use set forth in Paragraph 1(h) of this Lease permits Tenant to sell or dispense alcoholic beverages on or from the Premises, Tenant's insurance shall not exclude liability for violation of any governmental statute, ordinance, regulation or rule pertaining to the sale, gift, distribution or use of any alcoholic beverages, or liability by reason of the selling, serving or giving of any alcoholic beverage to a minor or to a person under the influence of alcohol, or which causes or

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contributes to the intoxication of any persons, and the indemnification obligations of Tenant under Paragraph 26 of this Lease shall extend, as well, to damage occurring elsewhere than in, on or upon the Premises resulting from risks insurable by so-called dram shop liability insurance.

- (d) Tenant shall, in addition to the foregoing, procure and maintain, in full force and effect, if the use in Paragraph 1(h) permits and Tenant installs any pressure vessels, bollers, stoves or other similar equipment in the Premises, boiler and machinery insurance providing for coverage for direct loss and business interruption coverage for indirect loss arising out of or in connection with all bollers, and other pressure vessels and systems or similar equipment, located in, on or about the Premises.
- (e) Each insurance policy required under the provisions of this paragraph shall cover the entire Premises and the areas appurtenant thereto, including any sidewalks upon which the Premises abut and provide that it cannot be canceled or amended, except for increases in coverage, without thirty (30) days' prior written notice to Landlord and shall provide for notice to Landlord if not renewed at the expiration thereof. A current certificate of insurance evidencing that the same is in effect, shall be promptly deposited with Landlord. The limits of said policies shall be increased in accordance with such limits as Landlord may establish from time to time with due regard to prevailing prudent business practices and as reasonably adequate for Landlord's protection.
- The parties release each other, and their respective authorized representatives, from any claims for damage to any person or to the Premises and to the fixtures, personal property, Tenant's improvements, and alterations of either Landlord or Tenant in or on the Premises that are caused by or result from risks insured against under any insurance policies carried by the parties and in force at the time of any such damage. Each party shall cause each insurance policy obtained by it to provide that the insurance company walves all right of recovery by way of subrogation against either party in connection with any damage covered by any such policy. Neither party shall be liable to the other for any damage caused by fire or any of the risks insured against under any insurance policy required by this Lease. If any insurance policy cannot be obtained with a waiver of subrogation, or is obtainable only by the payment of an additional premium charge above that charged by insurance companies issuing policies without waiver of subrogation, the party undertaking to obtain the insurance shall notify the other party of this fact. The other party shall have a period of ten (10) days after receiving the notice either to place the insurance with a company that is reasonably satisfactory to the other party and that will carry the insurance with a waiver of subrogation, or to agree to pay the additional premium if such a policy is obtainable at additional cost. If the insurance cannot be obtained or the party in whose favor a waiver of aubrogation is desired refuses to pay the additional premium charged, the other party shall be relieved of the obligation to obtain a waiver of subrogation rights with respect to the particular insurance involved.

36. FAILURE OF TENANT TO OBTAIN INSURANCE:

In the event that Tenant falls to procure and/or maintain any insurance required by Paragraphs 35 and 37, or falls to carry insurance required by law or governmental regulation, Landlord may (but without obligation to do so) at any time or from time to time, and without notice, procure such insurance and pay the premiums therefor, in which event Tenant shall repay the Landlord all sums so paid by Landlord, together with interest thereon as provided in Paragraph 41 of this Lesse, and any incidental costs or expenses incurred by Landlord in connection therewith, within ten (10) days following Landlord's written demand to Tenant for such payment.

37. INSURANCE ON FIXTURES AND EQUIPMENT:

Tenant shall procure at its own expense and, during the entire Term, keep in full force and effect insurance on Tenant's fixtures and equipment in the Premises, in the full insurable value thereof, against fire and extended coverage risks including protection against variablem, malicious mischief and ceiling sprinkler leakage protection, and in time of war, against war damage to the extent such governmental insurance is obtainable at reasonable cost, in an amount as near as practicable to the full replacement cost of such improvements. Tenant shall deposit a current certificate of said insurance with Landlord naming the Landlord and such other parties as Landlord may specify, as their interests may appear, as additional insured, and said insurance shall contain a provision that it will not be canceled or substantially modified without giving Landlord thirty (30) days' written notice prior to the effective date of the proposed cancellation or modification. Tenant is self-insured and shall be solely responsible for any loss or damage to its fixtures and equipment resulting from the risks described herein.

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38. RISK OF LOSS:

The storage and/or presence of all goods, wares, merchandles or other property of Tenant or anyone claiming by, through or under Tenant on the Premises shall be at Tenant's or such other owner's sole risk, and except for Landford's negligence, Landford shall not be responsible for any loss or damage from fire, smoke or water damage, from bursting, overflowing or leaking of water, gas, sewer or steam pipes, from radio interference, electrical surges, outages or spikes, from the kind or character of electricity or utilities furnished to the Premises, from any interruption or curtailment of utilities or services, or from any fixtures, appliances or devices to the same, or from electric wires, fixtures, appliances or devices or from odors or from any cause whatsoever.

39. CARE AND SECURITY DEPOSIT:

- (a) Concurrently with the execution of this Lease, Tenant shall deliver to Landlord a sum equal to the amount which is set forth in Paragraph 1(f) as security for the performance by Tenant of every covenant and condition of this Lease. Said deposit may be commingled with other funds of Landlord and shall bear no interest.
- (b) If Tenent shall default with respect to any covenant or condition of this Lease, Landlord may, without prejudice to any other right or remedy of Landlord provided in this Lease, cure the same and Tenent shall reimburse Landlord for the cost thereof on demand. Landlord may apply the whole or any part of such security deposit to the payment of any sum in default of any other sum which Landlord may be required to spend by reason of Tenent's default. In the event Landlord should so apply all or any part of said deposit, Tenant shall within ten (10) days after receipt of notice from Landlord, pay the sum expended in order to replenish such deposit. Failure to do so shall be a default under Paragraph 14(a) of this Lease. Should Tenant comply with all of the covenants and conditions of this Lease, the security deposit or any balance thereof shall be returned to Tenant at the expiration of the term hereof or upon the earlier termination of this Lease.
- (c) Landlord may transfer and/or deliver the security deposit, as such, to any purchaser of Landlord's interest in the event that Landlord's interest shall be sold, and thereupon Landlord will be discharged from any further flability in reference thereto.
- (c) The Security Deposit shall be increased any time the monthly gross rent is increased, from time to time, and said increase shall be paid to Lessor within thirty (30) days of said increase.

40. OPERATING EXPENSE RATE:

- (a) Operating Expense Rent. In addition to the monthly base rent payable by Tenant, Tenant shall pay Tenant's proportionate share (herein called "Tenant's Proportionate Share") of the monthly estimated Building Operating Expenses (as defined in this Paragraph 40(g) hereinbelow) and as calculated by dividing the Rentable Area of the Premises by the Rental Area of the Building. The amount of Building Operating Expenses payable by Tenant is herein called "Operating Expense Rent". In calculating Tenant's Proportionate Share, which on the date of this Lease is the percentage set forth in Paragraph 1(e)(ii) hereinabove, the following shall apply:
 - (1) "Usable Area" of a premises shall mean that area of the Premises computed by measuring to the finished surface of the office side of corridor and other permanent walls of the Premises, to the center of partitions that separate the premises from adjoining Usable Areas not leased by Tenant, and to the inside finished surface of the dominant portion of the permanent outer Building walls. No deductions shall be made for columns and projections necessary to the Building. Parking areas shall be excluded. The Usable Area of the Premises on the date of this Lease is set forth in Paragraph 1(c)(l) hereinsbove. The Usable Area of a floor shall be equal to the sum of all Usable Areas on that floor.
 - (2) "Rentable Area" of a floor shall be computed by measuring to the inside finished surface of the dominant portion of the permanent outer Building walls, excluding any major vertical penetrations of the floor. No deductions shall be made for columns and projections necessary to the Building. The Rentable Area is subject to adjustment from time to time to correct errors in measurement or if changes are made to the Building, and Tenant's Proportionate Share shall be adjusted accordingly. The Rentable Area of the Premises shall be computed by multiplying the Usable Area of the Premises by the quotient of the division of the Rentable Area of the Building by the Usable Area of the Building.
 - (3) "Finiahed Surface" shall mean a wall, celling or floor surface, including glass, as prepared for Tenant use, excluding the thickness of any special surfacing materials such as paneling, furring strips and carpet.
 - (4) "Dominant Portion" shall mean that the portion of the inside finished surface of the permanent outer Building wall which is fifty percent (50%) or more of the vertical floor-to-

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ceiling dimension measured at the dominant portion. If there is no dominant portion, or if the dominant portion is not vertical, the measurement for area shall be to the inside finished surface of the permanent outer Building wall where it intersects the finished floor.

- (5) "Major Vertical Penetrations" shall mean stairs, elevator shafts, flues, pipe shafts, vertical ducts, and the like and their enclosing walls which serve more than one floor of the Building, but shall not include stairs, lifts, and the like, exclusively serving a tenant occupying offices on more than one floor.
- (b) Payment of Operating Expense Rent. For purposes of this Lease, the "Fiscal Year" for the Building shall be a period of twelve (12) consecutive calendar months, with the initial Fiscal Year commencing on the first day of such month as shall be established by Landlord, in Landlord's sole discretion, and each succeeding Flecal Year commencing on the anniversary thereof. For each period prior to the establishment of the first Fiscal Year and prior to the beginning of each Fiscal Year during the term of this Lease, Landlord shall make its best estimate of Tenant's Operating Expense Rent for that Fiscal Year, and Landford may revise that estimate from time to time during each such period, in accordance with changing conditions. For each and every month during the term of this Lease, Tenant shall pay to Landlord in addition to the monthly base rent and at the same time and place as such rent is payable to Landlord, one-twelfth (1/12) of Tenant's estimated Operating Expense Rent (as adjusted from time to time by Landlord, pursuant to Paragraph 40(c). Said fraction of the estimated fee shall be paid in advance, without any offset or deductions. If the term of this Lease shall not commence on the first day of a calendar month, a portion of the one-twelfth (1/12) of the estimated fee which would have been payable for that calendar month if the Term had commenced on the first day of that month shall be payable by Tenant for the resulting initial fractional month, such portion to be computed by dividing the one-twelfth (1/12) of the setimated fee by thirty (30) and multiplying that result by the number of days remaining in said fractional month. Such portion shall be payable on the execution of this Lease along with the one-twelfth (1/12) of the estimated fee for the first full calendar month of the term. If the term of this Lease shall not expire with the last day of a calendar month, a portion of the one-twelfth (1/12) of the estimated fee (as adjusted as aforesaid) which would have been payable for that calendar month if the term had expired with the last day of that month shall be payable by Tenant for the resulting last fractional month, such portion to be computed by dividing the one-twelfth (1/12) of the estimated fee by thirty (30) and multiplying that result by the number of days in said fractional month prior to the expiration of the term. Such portion shall be payable along with the one-twelfth (1/12) of the estimated fee for the last full calender month of the term.
- (d) Adjustment of Operating Expense Rent. If, at any time during the Flecal Year, Landlord revises upward its best estimate of Tenant's Operating Expense Rent for that Flecal Year, Landlord shall notify Tenant of the extent of such revision. In the event of any such upward revision, Tenant shall pay to Landlord at the office of Landlord, on or before the date on which he next regular installment on Tenant's estimated Operating Expense Rent becomes due, the difference between (i) the total amount which Tenant would theretofore have been obligated to pay Landlord for the then current Flecal Year, pursuant to this Paragraph 40, if said revised estimated fee had been in effect continuously from and including the first day of that Fiscal Year, and (ii) the total amount which Tenant theretofore hed actually paid Landlord for the then current Flecal Year, pursuant to this Paragraph 40. If, at any time during the Fiscal Year, Landlord revises downward its best estimate of Tenant's Operating Expense Rent for that Fiscal Year, Landlord shall notify Tenant of the extent of such revision.
- (d) Annual Adjustment for Actual Building Operating Expenses. After the end of each Fiscal Year for the Building (including the years in which the term commences and terminates), Landlord shall compute the actual Building Operating Expenses for such Fiscal Year and notify Tenant of any correction for the estimated Building Operating Expenses for the preceding Fiscal Year as soon as reasonably possible after the end of each such Fiscal Year. Within ten (10) days after the giving of notice that the actual Building Operating Expenses were greater than the estimated Building Operating Expenses, Tenant shall pay to Landlord an amount equal to Tenant's Proportionate Share of the excess of the actual Building Operating Expenses over the estimated Building Operating Expenses for the preceding Fiscal Year. Should it be determined that the actual Building Operating Expenses for any Fiscal Year were less than the estimated Building Operating Expenses, at Landlord's option, Tenant shall be entitled to a credit against future payments of Building Operating Expenses, or a refund in the case of the last year of the term, in an amount equal to Tenant's Proportionate Share of the difference between the actual Building Operating Expenses and the estimated Building Operating Expenses.
- (e) Normalization and Proration. For the purpose of determining increases in Operating Expense Rent payable by Tenant pursuant to this Paragraph 40, the calculation shall be based on a full Fiscal Year and Operating Expense Rent computed as herein set forth shall be deemed to have accrued uniformly during such Fiscal Year, provided, that Landlord shall have the right to allocate between or among as many Fiscal Years as it determines to be reasonable, in its sole judgment, the costs incurred in making extraordinary repairs. The final payment under the provisions of this Paragraph 40 for the Fiscal Year in which this Lesse terminates shall be

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prorated, based on the actual Building Operating Expenses for such Fiscal Year, through the termination of this Lease, and any Operating Expense Rent shall be due or a refund of overpayment made within ten (10) days after notification to Tenant of any adjustment as provided in Paragraph 40(d) hereinabove. If any part of the Building is not fully occupied and used during any Fiscal Year for the purpose of the calculations to be made under this Paragraph 40, the Building Operating Expenses, both estimated and actual for such period or Fiscal Year, as the case might be, shall be adjusted by adding amounts and Items of Building Operating Expenses which would normally have been incurred if the Building had been fully occupied and used during such Fiscal Year, as the case might be, as estimated by Landlord. Tenant's share of the Building Operating Expenses shall be based on an assumed full occupancy.

- (f) Statement of Building Operating Expenses. A written statement showing in reasonable detail Landford's actual Building Operating Expenses for the previous Fiscal Year shall be made available for inspection by Tenant during normal business hours at any time after the notice referred to in Paragraph 40(d) hereinabove has been given.
- Definition of Building Operating Expenses. Building Operating Expenses shall be determined (g) in accordance with acceptable principles of sound accounting practice as applied to operation and maintenance of similar office buildings, and the term "Building Operating Expenses" shell mean all of the expenses and costs which shall be incurred or paid by Landlord in keeping and maintaining the public and common areas of the Building, walkways, landscaped areas, all parking areas, stainwells (both interior and exterior), exterior lighting and interior lighting for common areas, and all facilities provided for by Landlord for the common or joint use and benefit of all tenants of the Building of which the Premises are a part, their employees, agents, customers and guests and on account of such operation and maintenance of the Building, including, without limitation to the generality of the foregoing, the cost of utilities, automated control systems janitorial services and other cleaning costs, pest control, charges for sewer, costs for planting and maintaining landscaped areas, heating, elevators, air conditioning, trash disposal, repairs and maintenance, security, costs directly incurred and costs incurred under outside contracts, including the cost of management contracts, legal, accounting, and engineering fees, supplies, wages and salaries of employees used in maintenance and general operations (as distinguished from the cost of management contracts or equivalent management services aforesaid), and payroll taxes (and similar governmental charges) with respect thereto, depreciation or rental of equipment used in operation and maintenance, audit and bookkeeping expenses, legal fees and expenses, financing expenses relating to operation and management, insurance (including fire and extended coverage, vandatism and malicious mischief, public liability and property damage and workers' compensation insurance customarily carried by owners of similar office buildings within the limits of the City and County of Honolulu), property taxes and other taxes, charges and assessments imposed by governmental authority and paid by Landford with respect to the Building and the land on which the same is situated, including taxes upon or measured by Landlord's gross income to the extent that such taxes have not already been recovered under Paragraph 33 of this or similar leases (but excluding taxes upon or measured by Landlord's net income), and the cost and expenses of any contest of the amount of validity of any such taxes, charges or other assessment. The Operating Expenses shall not include capital expenditures or depreciation on real property, but shall include depreciation of capital expenditures made for the purpose or having the effect of reducing operating or janitorial expenses.
- (h) Special Tenant's Expenses. Where any expense over and above normal Operating Expenses is incurred or paid by Landford specifically for the benefit of and at the request of a particular tenant, any reimbursement of such expenses by such tenant shall be credited against Operating Expenses for the purpose of this Paragraph 40, if, in Landford's good faith determination, any facilities or services are provided for Tenant in common with some but not all tenants of the Building, then Tenant's proportionate share shall mean, with respect to any such facilities or services, the percentage obtained by dividing the floor area of Tenant's Premises by the aggregate floor area of the premises of all tenants (including Tenant) benefitted by such common facilities or services. Tenant shall be conclusively bound by any good faith determination by Landford with respect to the foregoing.

41. INTEREST ON PAST DUE AMOUNTS:

Any amounts owing by Tenant to Landlord under the terms of this Lease shall carry interest from the date the same become due until paid at (A) the specified maximum rate, if any, then allowed by applicable law, or (B) if there is no specified maximum rate, interest shall be calculated at the rate of one point five percent (1.5%) per month and said interest shall be considered as a part of the rental payable hereunder; provided, however, that nothing contained herein shall be construed as authorizing Tenant to make payments of all sums required hereunder in other than a timely fashion.

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42. NOTICE:

All notices hereunder shall be given in writing and may be given or served for all purposes by regular registered or certified mail, postage prepaid, addressed to Tenant at its post office address hereinabove specified or at such other post office address as Tenant may from time to time designate in writing by notice to Landford, or to Landford at its office hereinabove set forth or at such other post office address as Landford may from time to time designate to Tenant, and any such notice shall be deemed conclusively to have been given or served on the date of such mailing even if Tenant has departed or has abandoned or vacated the Premises. If there be more than one Tenant or Landford mailing to one of the Landfords or to one of the Tenants shall be construed as notice to all of the Tenants as the case may be.

43. SEVERABILITY:

If for any reason whatever any of the provisions hereof shall be unenforceable or ineffective, all of the other provisions shall be and remain in full force and effect.

44. ENTIRE AGREEMENT:

The provisions of this Lease constitute, and are intended to constitute, the entire agreement of the parties to this Lease. No terms, conditions, warranties, promises or undertakings of any nature whatever, express or implied, exist between the parties except as herein expressly set forth.

45. WAIVER:

Landford's failure to take advantage of any default or breach of covenant on the part of Tenant shall not be construed as a waiver thereof, nor shall any custom or practice which may grow up between the parties in the course of administering this instrument be construed to waive or to lessen the right of Landford to insist upon the performance by Tenant of any term, covenant or condition hereof, or to exercise any rights given Landford on account of any such default. A weiver by Landford of a particular breach or default shall not be deemed to be a waiver of the same or any other subsequent breach or default. The acceptance of rent hereunder shall not be, or construed to be, a waiver of any breach of any term, covenant or condition of this Lesse nor of Landford's right to declare and enforce a forfeiture for any such breach, and failure of Landford to insist upon strict performance of any term, covenant or condition herein shall not be construed as a waiver of any subsequent breach of the same nor of any other term, covenant or condition.

46. WAIVER OF JURY TRIAL:

The parties each hereby waive trial by jury in any action, proceeding or counterclaim brought by either against the other on any matter whatsoever arising out of or in any way connected with this Lease or Tenant's use or occupancy of the Premises, including any claim of injury or damage, and any emergency and other statutory remedy with respect thereto. In the event Landiord commences any proceedings for nonpayment of rent or other charges payable by Tenant hereunder, Tenant will not interpose any counterclaim of whatever nature or description in any such proceedings. This shall not, however, be construed as a waiver of Tenant's right to assert such claims in any separate action or actions brought by Tenant. The parties also agree that the venue of any such action, proceeding or counterclaim shall be in the City and County of Honolulu, State of Hawaii.

47. PARKING PRIVILEGES:

Landlord shall provide, for the term of this Lease so long as Tenant is not in default of its obligations hereunder, parking space allocations for that certain number of automobiles as is specified in Paragraph 1(g) for the use of Tenant and its designess at such morthly rates and on such terms as may be established from time to time by Landlord and reflected in separate parking agreements between Landlord and Tenant. Tenant hereby agrees to pay all parking fees and other charges payable under said parking agreements and guarantees that Tenant and Tenant's designess will otherwise faithfully comply with the terms of said parking agreements and all parking rules and regulations promulgated by Landlord. Should Tenant fall to pay said fees and charges or should Tenant or its designess otherwise fall to comply with the terms of said parking agreements and said parking rules and regulations, Landlord may immediately terminate and cancel all of Tenant's parking privileges and the parking space allocations specified herein. Any default under the term of this Lease shall be considered to be a default under the terms of the parking agreement, and any default under the terms of this Lease.

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48. CHANGE OF BUILDING NAME:

Landlord may, in its sole judgment, change the name of the Building at any time and in any manner it desires to do so.

49. CHANGE OF TENANT'S SUITE NUMBER:

Landlord may, by its sole judgment, at any time during the term upon sixty (60) days' prior notice to Tenant, change the suite number by which the Premises is designated.

50. DEFINITIONS:

As used herein the terms "Landford" and "Tenant" shall include the respective parties and their heirs, legal and personal representatives, successors and assigns; the liability of Tenant, if more than one (1), shall be joint and several; pronouns wherever used herein should be construed to include the plural or singular or both; the use of any gender shall include all genders as the context may reasonably require; and each of the terms "or" and "and" has the meaning of the other or both where the subject matter, sense and connection require such construction.

51. SUCCESSORS:

All of the covenants, agreements, terms and conditions contained in this Lease shall apply to, accrue to and be binding upon Landford and Tenant and their respective heirs, executors, administrators, successors and permitted assigns.

52. SHORT-FORM COUNTERPART:

Upon request by either party, the other party will execute and deliver to a party requesting the same a recordable short-form counterpart of this Lease, stating the names of the parties, the term, the description of the Premises, and the nature of any options for renewal. The Landlord will supply the short-form counterpart.

53. SALE OR MORTGAGE OF LANDLORD'S INTEREST:

Landlord shall have the right to sell, transfer, mortgage or assign any of its rights and obligations under this Lease without prior notice to or the consent of Tenant. In the event of a sale or conveyance by Landlord of the Building and the land of which the Premises are a part, the same shall operate to release Landlord from any future liability upon any of the covenants or conditions, express or implied, herein contained in favor of Tenant, and in such event Tenant agrees to look solely to the successor in interest of Landlord shall have the right, in its sole discretion, to change the name of the Building at any time. Except as is otherwise provided in this paragraph, this Lease shall not be affected by any such sale, and Tenant agrees to attorn to the purchaser or assignee.

54. DEMOLITION:

If at any time during the term hereof, Landlord in its sole discretion wishes to demolish the Building, or demolish, renovate or remodel that portion of the Building in which Tenent's premises are located, Landlord shall have the right to terminate this Lease as of any specified date not less than six (6) months following notice to Tenent in accordance with the provisions of Paragraph 42 herein, and Tenent shall vocate Tenent's premises as of the date so specified by such notice (the Termination Date"). Tenent shall not be entitled to any payment or reimbursement by Landlord under this paragraph. This paragraph is a material inducement for Landlord's execution of this Lease, and but for its inclusion in this Lease, Landlord would not have entered into this Lease with Tenent.

55. LANDLORD'S CONSENT:

Landlord hereby agrees that, except as is otherwise specifically provided herein, in any case in which Landlord's approval or consent is required hereunder, such consent or approval shall not be unreasonably or arbitrarily withheld, nor shall Landlord require the payment of any money for the giving of such consent other than a reasonable charge for the processing of the application for and preparation of the consent.

56. ACCORD AND SATISFACTION:

No payments by Tenant or receipt by Landlord of a lesser amount then the monthly rent herein stipulated shall be deemed to be other than on account of the earliest stipulated rent, nor shall any endorsement or statement on any check or any letter accompanying any check or payment as rent be deemed an accord and satisfaction, and Landlord may accept such check or payment without prejudice to Landlord's right to recover the balance of such rent or pursue any other remedy provided for in this Lease.

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 9 PAGE 24 OF 32

57. CHANGES TO COMMON AREAS:

Landlord shall have the right to make changes in the common areas and any part thereof including, without limitation, changes in the location and relocation of driveways, entrances, exits, vehicular parking spaces, the direction of flow of traffic, the setting apart of prohibited areas, the exclusion of employee parking therefrom as Landlord may deem necessary and advisable for the proper and efficient operation and maintenance of the common areas.

58. GUARANTY:

If Tenant is a corporation, partnership or other business entity, it is understood and acknowledged that Landlord would not have entered into this Lease; but for the delivery to Landlord of a guaranty of this Lease in the form attached hereto as Exhibit F and made a part hereof for all purposes, which is hereby incorporated by reference into and made a part of this Lease.

59. NO PARTY DEEMED DRAFTER:

The parties agree that neither party shall be deemed to be the drafter of this Lease and in the event this Lease is ever construed by a court of law, such court shall not construe this Lease or any provision hereof against either party as the drafter of this Lease.

60. WASTE AND NUISANCE:

Tenant will not commit or suffer to be committed any waste upon or of the Premises, or any nuisance or other act or omission which disturbs the quiet enjoyment of any other tenant in the Building of which the Premises are a part, and Tenant will immediately abete any nuisance or said other act or omission upon demand of Landford. Tenant shall not waste or permit the waste of water drawn through fixtures on or about the Premises.

61. RENEWAL:

Unless otherwise expressly provided for in Exhibit E of this Lesse, Landlord shall have no obligation to extend or renew this Lesse upon termination or to enter into another lesse of the Premises with Tenant upon termination of this Lesse. Upon termination of this Lesse, Landlord may lesse the Premises to whoever Landlord chooses for the operation therein of a business that is the same as or different from that operated by Tenant in the Premises.

62. MISCELLANEOUS:

AND IT IS HEREBY EXPRESSLY AGREED AND DECLARED that time is of the essence of this Lease and of each and every provision hereof except as to the conditions relating to the delivery and possession of the Premises to Tenant; that this Lease shall be governed by and construed in accordance with the laws of the State of Hawali; that the term "Premises" wherever it appears herein includes and shall be deemed or taken to include (except where such meaning would be clearly repugnant to the context) the space demise and improvements now or at any time hereinafter comprising or built in the space hereby demised; that the paragraph heading herein are for convenience of reference, and shall in no way define, limit or describe the scope or intent of any provisions of this Lease; that the term "Landford" in these presents shall include the above named Landford and its successors and assigns; that in any case where this Lease is signed by more than one person, the obligations hereunder shall be joint and several; and that the term "Tenant" or any pronoun used in place thereof shall indicate and include the meaculine or femiliane, the singular or plural number, individuals, firms or corporations, and their and each of their respective successors, personal representatives and permitted assigns, according to the context hereof.

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IN WITNESS WHEREOF, the parties hereto have executed this indenture the day and year first above written.

WATERHOUSE, INC.

(LANDLORD)

ILS FISSICION

HAWAIIAN ELECTRIC COMPANY, INC.

(TENANT)

S JACKIE M. ENCKSON

Its CHARLES M. HREDMAN

APPROVED

" ADOL

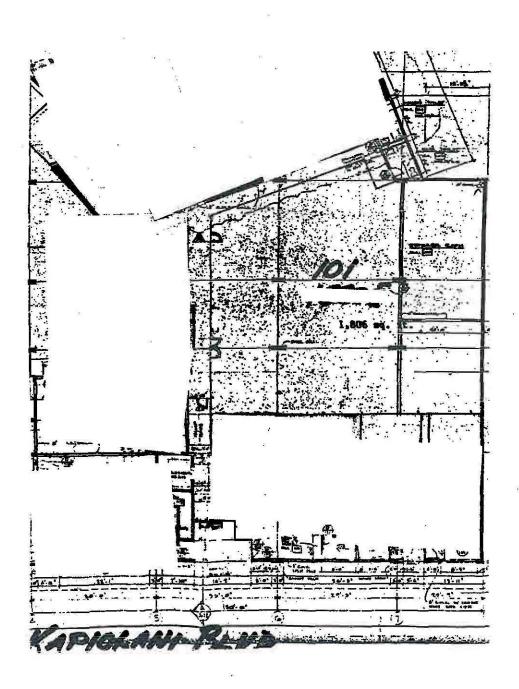
Division __

Initiating Division ...

by Garage

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 9 PAGE 26 OF 32

EXHIBIT A 770 KAPIOLANI BUILDING SUITES #101



CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 9 PAGE 27 OF 32

EXHIBIT B

RULES AND REGULATIONS

770 KAPIOLANI BUILDING

These rules and regulations have been adopted for the purpose of insuring order and safety in the Building and to maintain the rights of Tenants (Lessees) and Landlord (Lessor). Landlord reserves the right to modify, supplement or rescind any of these rules for the safety, care and cleanliness of 770 KAPIOLANI BUILDING and for the preservation of good order therein. Each Tenant shall be liable for injury or damage caused by the infraction of any of these rules by him, his employees, agents or invitees, and Landlord may repair such damage, charging the cost of same to such Tenant, which amount shall be added to rent due for the ensuing month.

BUILDING HOURS: The Building will be open from 6:30 a.m. to 6:00 p.m. weekdays, Saturday, 8:30 a.m. to 1:00 p.m. On Sundays, holidays and after regular open hours, access to demised premises will be by a passkey (issued to Tenant). Tenant shall be responsible for keeping the passkey out of unauthorized hands. Landlord reserves the right to change this schedule from time to time as deemed necessary.

BUILDING HOLIDAYS: The 770 Kapiolani Building observes New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day as Building holidays. Building holidays are subject to change at Landlord's sole discretion.

CLOSING PREMISES: Each Tenant shall see that his demised premises are securely locked and will exercise caution to insure that all water faucets and powered equipment are shut off and coffee makers and water heating units disconnected before Tenant or Tenant's employees leave the Building.

COMMON AREAS: Areas and rooms used in common by Tenants shall be subject to regulations adopted by Landlord.

DEDICATION - PREVENTION OF: Landlord reserves the right to close off any and all of the plazas, promenades and sidewalks of the Building for twenty-four (24) hours once every five years to prevent dedication.

DELIVERIES: Only hand trucks equipped with rubber tires and side guards will be permitted in the Building. All deliveries will be brought through the service entrance for said Building only. All deliveries requiring exclusive use of an elevator shall be scheduled with Landlord and in any event such use will not be permitted without the use of elevator protective pedding and such use will not be permitted between the hours of 7:30 a.m. to 8:30 a.m., 11:30 a.m. to 1:30 p.m., 3:30 p.m. to 5:00 p.m.

HEAVY ITEMS: All carrying in or out of freight, packages or bulky matter of any description must take place only during hours selected by Landlord and then only with prior notice to and approval by Landlord. No objects beyond the rated capacity of elevators shall be brought into the Building. Landlord shall have the right to prescribe the location of heavy objects and if considered necessary, the means to distribute the weight thereof (to no more than fifty (50) pounds per square foot). All costs incurred will be charged to Tenant. Any damage to the Building caused by any such Tenant or its contractor, delivery or moving service will be repaired at such Tenant's expense.

DIRECTORY: The Building Directory is provided for displaying the name and location of each Tenant. Each Tenant is entitled to a standard one line entry on the directory board per suite number. Any request for an additional name or change of name must first be approved by Landlord, and subject to available space. A charge will be made for the initial listing and for each name added to or other change to Tenant's name.

ELECTRICAL AND AIR-CONDITIONING SYSTEMS: No Tenent shall alter the standard Building lighting or air-conditioning system or install any air-conditioning equipment or any special wiring or abnormal power consuming equipment without prior approval of Landlord. If air-conditioning and/or power is used out of normal hours or there is abnormal consumption thereof, the Tenant involved shall pay on demand a reasonable charge. The air-conditioning system will operate between the hours of 7:00 a.m. to 6:00 p.m. weekdays and 8:00 a.m. to 1:00 p.m. on Saturdays, except holidays.

No more than one electrical appliance, light or device shall be connected to each electrical wall outlet. Extensions cords or electrical connections designed for this purpose are strictly prohibited.

JANITOR SERVICE: No one other than those approved by Landford will be permitted to perform any janitorial service in the Building. Janitor service, if supplied by Landford, will not include the cleaning of carpets and rugs. Landford shall not be responsible for any loss of or damage to any Tenant's property by the janitor, its employees or any other person performing janitorial service.

KEYS AND LOCKS: No locks other than those provided by Landlord shall be placed on any doors nor shall duplicate keys be made. All extra keys will be furnished to a Tenant by Landlord at such Tenant's expense

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and all keys will be accounted for and surrendered upon termination of lease. Building janitors and contract cleaners will be provided with a passkey to offices in the Building. The cost of replacing locks, when all keys are unaccounted for, will be charged against the Tenant of the area involved.

OBSTRUCTION OF COMMON AREAS: All common areas will be used only for ingress and egress to the demised Premises. Landlord retains the right to control and prevent access onto the property including the entire Building, by any and all persons and other than those persons having a legal right to ingress to and egress from the demised Premises. Only persons authorized by Landlord will be permitted in areas housing mechanical, electrical or equipment of any kind.

REMOVAL OF PROPERTY: Each Tenant shall deliver a fist of any fixtures or improvements in the premises which Tenant desires to remove from the Building, and the list must be approved at the Office of the Building Manager before any such fixture or improvement is removed.

REPAIRS AND ALTERATIONS: Only contractors approved by Landford will be permitted to carry out any repairs or afterations within the Building.

SERVICE AREA: All loading and unloading of goods and all garbage and refuse disposal shall be made only through service ways provided for such purposes. No rubbish or debris will be deposited by any Tenant in the corridors, loading areas or adjacent traffic and pedestrian ways.

SERVICE CALLS: The requirements of a Tenant will be attended to only upon application by such Tenant to the Building Manager's Office, Building employees will not perform any work outside of regular duties unless they are under special instruction from the Building Manager or his authorized assistant.

SMOKING: Smoking is strictly prohibited in the Building in all areas as described in the Revised Ordinances of the City and County of Honolulu, Chapter 41, Article 21. This includes, but is not limited to business establishments, office spaces, halfways, stainwells, elevators, lobbles, and restrooms.

OFFICE FURNITURE AND FOCURES: All furniture and fixtures exposed to public view must be new or fully reconditioned and suitable for use within a building of the location and character of that in which the demised premises are located.

PARTITIONS: Drywall partitions shall be built of 2½° galvanized steel stude and 5/8° type X Gypeum Board spaced not more than 24° o.c. Inside comers shall be taped and finished. Outside comers shall be reinforced with metal trim, taped and finished. Partitions meeting the interior face of the external wall shall terminate at the contentions between windows.

All sleepers, joists, stude or furring made of wood shall be Wolmanized (or equal) except where the Building Code calls for fire retardant treatment.

MISCELLANEOUS: No wiree, pipes or other materials shall be installed through fire dampers.

RUBBISH: No construction rubbish or debris is to be put in Building rubbish bins. These materials are to be removed from Building by contractor or tenant responsible for them.

DUST: Any construction, demolition or repairs that create heavy dust, such as drywall tape joint sanding, etc. shall be done after hours when air-conditioning fans are off.

NOISE: Any construction, demolition or other activity that create loud noises shall be done after normal business hours.

Revised 5/02

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EXHIBIT C

OUTLINE FOR SPECIFICATIONS FOR TENANT IMPROVEMENTS

770 KAPIOLANI BUILDING

The following are minimum requirements only.

COMMON AREAS: Common areas occurring where a full floor Tenant sub-divides, and sub-leases, shall conform to the design of the common areas of multiple Tenant floors. Tenant entries and demising partitions shall be of the Building Standard design.

CEILING PANELS: Ceiling panels which are damaged or left unsightly by removal of walts shall be replaced with like panels.

CONCRETE FLOORS: Holes for electrical and telephone services or chases may be cut through the concrete floor stabs only with the prior approval of and under the direction of the Landford and its Engineer.

CONCRETE WALLS: Chases and holes shall not be cut in any concrete wall or column without the prior approval of and under the direction of the Landlord and its Engineer.

CONTRACTORS INFORMATION: If a contractor is in doubt about the meaning of any of these specifications, he shall ask the Building Manager or Building Engineer for an interpretation.

- Before starting any construction or alteration work, Tenant shall submit two sets of plans and specifications to the Building Menager and obtain Landiord's written approval per Paragraph 16 of Lease. Electrical, plumbing and mechanical plans will be approved by a registered engineer of Landlord's choice.
- Plans for changes in air-conditioning loads, air-conditioning ducts or partition walls which might
 affect the air-conditioning shall be approved by a registered mechanical engineer specified by the
 Landlord.
- Contractors shall be responsible for relocating thermostats.
- All work shall conform to the requirements of the Honolulu Uniform Building Code, latest edition
 as modified by law, and a City building permit obtained for all jobs in excess of \$1,000 or those
 involving electrical, plumbing or mechanical work. The building permit must be posted on the job
 site.
- Contractor shall take such action as necessary to prevent damage to any person or property from dust, noise, vibration, odor, interruption of elevator, air-conditioning or electric power.
- Contractors and their workmen will use loading dock to load or unload tools and materials only.
 No parking allowed except by special permission from the Building Manager.
- Elevators shall not be used longer than absolutely necessary for transporting tools and materials, and shall be left clean when finished. Elevator may be used for transporting tools and materials however, prior approval of Landlord is required; exclusive use should be scheduled with Landlord and in any event, such use will not be permitted between the hours of 7:30 a.m. to 8:30 a.m., 11:30 a.m. to 1:30 p.m. and 3:30 p.m. to 5:00 p.m.

ELECTRICAL: All wiring shall be installed according to the National Electrical Code, and the Honolulu Uniform Building Code. Wiring in new work shall be installed in rigid metal conduit. Wiring installed in existing wells or floors may be installed in flexible metal sheathed cable with approved bushings inserted in each end. Flomex cable is not permitted. All junction, outlet and switch boxes shall be zinc coated steel.

All electrical modifications performed within a leased space will include the installation of light switches; in addition, Tenant, Tenant's architect or Tenant's contractor will consult with Building Management to achieve "task lighting" within the demised space. Electrical plans will be approved by a registered electrical engineer specified by the Landlord.

ENTRY: Entries to Tenant spaces will conform to building standards as approved by Landlord.

FLOOR COVERING: Floor coverings shall be commercial quality carpet and shall not be affixed to the floor in any manner except by a tack strip, paste, or other material, which may be easily removed with water. The use of cement or other similar adhesive materials is expressly prohibited. The method of affixing the floor covering shall be specified in the plans and specifications submitted to the Landford for its approval. The

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expense of repairing any damage resulting from a violation of this rule and any expense of removing any floor covering affixed to the demised premises in violation of this rule, shall be borne by the Tenant. Any special condition floor coverings shall be submitted to the Landlord for its approval. A base shall be used to all walls and partitions.

GRAPHICS: Only Building Standard Graphics will be permitted in Common Areas.

SIGNS, SCREENS AND AWNINGS: No notice or advertisement visible from the exterior of the Building or the Premises will be permitted without prior written approval of Landlord which approval shall not be unreasonably withheld. All graphics, curtains, blinds, shades or screens visible from the exterior of the Building or any premises demised, shall conform to Building standards as specified by Landlord from time to time. In the event of the violation of this rule by any Tenant, Landlord may remove same without any liability, and may charge the expense incurred thereby to the Tenant Involved.

SOLICITORS: Landlord reserves the right to eject from the Building any solicitors, canvassers or peddiers and any other class of persons who, in the judgment of the Landlord, are annoying or interfering with any of Tenant's or Landlord's operations or who are otherwise undesirable.

TRASH: Each Tenant shall store all of its trash and garbage within the interior of his demised premises. No material shall be placed in trash boxes or receptacles if such material is of such nature as to be in violation of any law or ordinance governing disposal of same.

USE: Except with prior written consent of Landlord, no Tenant shall conduct any business other than that specifically provided for in his Lease. No Tenant shall permit his demised premises to be used in a manner offensive or objectionable to the other Tenants or Landlord. No cooking shall be done or permitted on the demised premises nor shall Tenant cause or permit any unusual or objectionable odors to be produced upon or permeate from his demised premises. No Tenant shall at any time bring, allow or keep upon the Premises any inflammable, combustible or explosive fluid, chemical or substance in such quantities as may endanger or imperit the demised premises or any other premises or the property or lives of other persons. No Tenant shall make or permit to be made any unseemly noises or disturb or interfers with occupants of this or adjoining buildings or premises or those having business with them whether by the use of any musical instruments, radio or television set, phonograph, singing or the making of any disturbing sounds. There shall not be any animals permitted on the Premises, for any reason, without prior written approval of Landlord. The Premises shall not be used for lodging or sleeping.

VACATING PREMISES: Each Tenant will give Landlord at least ninety (90) days prior written notice of intention to vacate the demised premises.

VIOLATIONS: Landlord is not responsible to any Tenant for the non-observance or violation of these regulations by any other Tenant.

WASHROOMS: The levetory facilities and other water apparatus shall not be used for any purpose other than that for which they were constructed. The expense to repair any breakage, stoppage or damage resulting from the violation of this rule shall be borne by the Tenant whose employees or visitors shall have caused it.

WATER: Water will be supplied by Landford for drinking and toilet purposes only.

WINDOW DISPLAYS: Tenant will not use any method or type of display or window advertising without Landlord's prior approval which shall only be given if the proposals are considered by Landlord to be consistent with the Building character which approval shall not be unreasonably withheld.

WINDOWS AND DOORS: No windows, glass doors or any other light sources that reflect light into the liables or other places of the Building shall be obstructed or covered except in a manner approved by Landlord.

The Management would appreciate any suggestions for the betterment of service in the 770 KAPIOLANI BUILDING. Please address all communications to:

Waterhouse, Inc. Attn: Keith Yarnashita 670 Queen Street, Suite 200 Honolulu, Hawaii 98813

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EXHIBIT D

RENT

SUITES #101

Rent to include Base and Operating Expense charges and Hawaii General Excise Tax (4.186%).

Base Rent:

For the period commencing May 1, 2005 and terminating on and including April 30, 2006, the base rent will be:

One Thousand Six Hundred Sixty One and 52/100 Dollars (\$1,661.52)

For the period commencing May 1, 2006 and terminating on and including April 30, 2007, the base rent wifi be:

One Thousand Seven Hundred Fifty One and 82/100 Dollars (\$1,751.82) . 97 S.F.

Common Area Maintenance:

Common Area Maintenance charges are currently \$0.56 per square foot per month and are adjusted in accordance with Building expenses. (Excludes air conditioning services to Premises) Subject to adjustment per lease agreement.

Common Area Maintenance shall include but is not limited to the following:

Electricity
Water & Sewer
Air Conditioning
Refuse Removal
Repairs & Maintenance
Real Property Taxes
Management Fees

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 **ATTACHMENT 9 PAGE 32 OF 32**

EXHIBIT E

SPECIAL PROVISIONS

SUITES #101

Parking:

NA

Condition of Premise:

Tenant accepts the premises in "as is" condition except for Landlord Improvements listed below. Any additional alterations or improvements to be done by Tenant shall be performed in accordance with the provisions of the Lease Agreement and with the prior approval of the Landlord.

Landlord Improvements:

- Install new demising wall.
 Install new floor coverings.
 Repair existing overhead light fixtures.

Security Deposit:

Waived.

2007 Source: HEI INTERCOMPANY SILLING - MARCH

Direct NonLabor Charges HECO

Hawaiian Electric Industries, Inc.

(A) 80.184, b Charges 4,899.00 Charges 1.63 4,481,08 4,899.00 4,032,00 Training room expense - March 2007. March 2007 rental charge for Central Pacific Ptaza office space. 3/07 HECO Gov't Relations phone March 2007 rental charge for ASB Description of Services Tower office space. Vendor Name SPRINT G3/G1/Q7 to G3/31/Q7 HE 03/01/07 to 03/31/07 03/01/07 to 03/31/07 Period ADM010 **ADM012** ADM011 ADM014 Activity

2007 (RAINING ROOM DUSCOTION:

\$ 13, 443 # 3 Mos.

INCREASE IN MONTHLY ALLOCATION DUB 8 40'878 9 Mos.

AT ATTACHMENT 11 OF B. TOMBSMICOS BASE RENT OF ASB TOWER 8th FLUOR. SEE NOTE (2) to increase in

32

3

04-25-2907 - Bill - HECO - ALLPRE_DLRPRE.xis, DirectNonLabor_ADM,4/25/2007,9:23 AM

. (1975-1970) | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 177 | 17

13,413.74

TOTAL \$

RESPONSE TO CA-18.299.

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 11 PAGE 1 of 2

REVISED HECO-1305

Hawaiian Electric Company, Inc. Account 931 - Rent Expense - REVISED Test Year 2007 Estimate

EXISTING LEASES	[a] Sq Ft	[b] Monthly Rent per Sq Ft \$	26. 28	[c]=[a]x[b] Annual Base Rent (2)		[d]=[a]x note(1) Est Annual CAM (1)	1	e]=[c]+[d] Annual Base & CAM Rent	([f]=[a]x note(1) Est RPT Credit (1)	(4	[g]= [e]+[f]) x 4.167%) Annual General Excise Tax	Ţ	[h]=[e]+ [f]+[g] Annual Rent 'Y 2007 \$ 000s)
Central Pacific Plaza (CPP) Leases:														
Suite 700	7,598	\$ 1.35	5 \$	123,468	\$	97,104	\$	220,571	\$	(15,738)	\$	8,535	\$	213
Suite 1010	4,509	1000	5 \$		Ψ	57,626	Ψ	130,897	Ψ	(9,339)	6 6500	5,065	Ψ	127
Suite 1020/1025/1075	4,532	1.30		73,192		57,920		131,112		(9,387)		5,072		127
Suite 1201/1212 (3)	2,871	1.25		9,044		7,705		16,749		(1,249)		646		16
Suite 1201/1212 (RDLC/CIDLC) (3)	2,871	1.25		5,239		4,464		9,703		(723)		374		9
Suite 1250/1270 (3)	1,598	1.30		5,420		4,289		9,708		(695)		376		9
Suite 1250/1270 (RDLC/CIDLC) (3)	1,598	1.30		3,140		2,485		5,624		(403)		218		5
Suite 1300	9,601	1.35		158,897		122,702		281,599		(19,886)		10.906		273
Suite 1425	2,788	1.25		44.050		35,631		79,681		(5,775)		3.080		77
Suite 1480	1,242	1.35		20.183		15,873		36,055		(2,573)		1,395		35
Suite 1515	732	1.40		12,298		9.355		21,653		(1,516)		839		21
Suite 1520/1530	2,451	1.35		39,829		31,324		71,153		(5,077)		2.753		69
Suite 1570	2,969	1.40		49,879		37,944		87,824		(6,150)		3,403		85
HEI Sublease (4) REVISED (4 MOs)	1,667	1.35		9,002		7,102		16,103		(1,151)		623		16
Suite 1710/1750/1760 (4) NEW (8 MOs.)	4,316	1.35		48,123		36,773		84,896		(5,960)		3,289		82
Total CPP	4,010	1.00		40,120		00,770		04,000		(0,000)		0,200	_	1,164
King Street Building	58,313	1.11		774,996		·=:		774,996		-		32.294		807
ASB Tower - 8th Floor REVISED (5 Mos)	1.955	1.25		12,375		11,241		23,616		(929)		945		24
ASB Tower - Training Rooms	See calculat	0.00		,				,		()		500		47
ASB Tower - Training Rms REVISED (12 Mos.) See Attachment 10 to B. Tamashiro's (T-13) response to CA-IR-299 for su					support				54					
Pauahi Tower - 5th Floor	15,892	1.25		238,380	/	219,310		457,690	5.50	(36,228)		17,562		439
Honolulu Club	2.544	2.45		74,794		-		74,794		(00,220)		3,117		78
South Street Parking Lot	See calculat											510.10		57
Waterhouse - Suite 506	3,085	0.80	9010	29,616		24,063		53,679		(2,777)		2,121		53
Waterhouse - Suite 404	1,662	1.05		20,941		17,872		38,813		(2,992)		1,493		37
Waterhouse - Suite 101	1,806	0.97		21,022		16,320		37,342		(3,251)		1,421		36
Waiau Viaduct	Quarterly pa			-1 De THE STATE OF		,0		,		(=,==,)		.,		32
Total TY 2007 Rent													\$	2,781

Note Explanations:

Note: Numbers may not add exactly due to rounding.

(1) For CPP leases, estimated common area maintenance (CAM) costs and real property tax (RPT) credits were estimated based on actual 2006 figures as follows:

CAIVI		RPI
\$2,890,538	\$	482,525
1.03		1.00
\$2,977,254	\$	482,525
232,959		232,959
12		12
\$ 1.07	\$	0.17
	\$2,890,538 1.03 \$2,977,254 232,959 12	\$2,890,538 \$ 1.03 \$2,977,254 \$ 232,959 12

For ASB Tower lease, CAM costs were estimated based on actual 2006 CAM billing rate of \$1.12 per sq ft and escalated 3%. RPT estimated credit was based on actual 2006 rate of \$.19 per sq ft with no escalation.

For Pauahi Tower lease, CAM costs were estimated based on actual 2006 CAM rate of \$1.12 per sq ft and escalated 3%. RPT credit was estimated based on building management's estimated 2006 RPT of \$.19 per sq ft with no escalation.

For Waterhouse leases, CAM costs were estimated based on actual 2006 CAM rate of \$.87 per sq ft and escalated 3%. Note that for Suite 101 and 506, lessor is charging a reduced CAM (\$.61 per sq ft until July 2007 for Suite 101 and \$.65 per sq ft for Suite 506). RPT credit was estimated based on the building's RPT assessed values for 2006-07 (\$.15 per sq ft).

For Honolulu Club lease, CAM and RPT credits are included in the base rent.

CA-IR-299 DOCKET NO. 2006-0386 HECO T-13 ATTACHMENT 11 PAGE 2 of 2

REVISED HECO-1305

Hawaiian Electric Company, Inc. Account 931 - Rent Expense - REVISED Test Year 2007 - Rent

Note Explanations Continued:

(2) Annual base rents are based on existing leases, except as adjusted based on lease terms and/or assumptions below:

Suite 700 - Lease expires 11/07. Assumed lease extended at \$1.40 per sq ft beginning 12/07.

Suite 1010 - Per lease, base rent increases to \$1.40 per sq ft beginning 12/07.

Suite 1020/1025/1075 - Per lease, base rent increases to \$1.35 per sq ft beginning 2/07.

Suite 1250/1270 - Per lease, base rent increases to \$1.35 per sq ft beginning 2/07.

Suite 1300 - Lease expires 5/07. Assumed lease extended at 1.40 per sq ft.

Suite 1480 - Per lease, base rent increases to \$1.40 per sq ft beginning 12/07.

Suite 1425 - Per lease, base rent increases to \$1.35 per sq ft beginning 5/07.

Suite 1520/1530 - Lease expires 11/07. Assumed lease extended at \$1.40 per sq ft beginning 12/07.

Suite 1570 - Lease expires 11/06. Assumed lease extended at \$1.40 per sq ft beginning 12/06.

HEI Sublease - Per lease, base rent increases to \$1.40 per sq ft beginning 6/07.

Suite 1710/1750/1760 - Per HEI lease with CPB, base rent increases to \$1.40 per sq ft beginning 6/07.

ASB Tower - Per lease, base rent increases to \$1.29 per sq ft beginning 4/07.

- (3) CPP Suites 1201, 1212, 1250, and 1270 are occupied by the Company's DSM (19 individuals) and Pricing (5 individuals) divisions. Therefore, 21% of the lease rents of these suites are allocated to Acct 931, while the remaining 79% are allocated to the Company's 7 DSM programs. The 79% allocated to the DSM programs are further allocated to the individual programs based on the number of personnel working on each program. Of the 79%, 15.4% is allocated to the Residential Direct Load Control (RDLC) and Commercial and Industrial Direct Load Control (CIDLC) programs which are recorded in Acct 931 since the cost of these programs are recovered through base rates (per Stipulated Settlement Letter dated 9/16/05 between HECO, CA, and the DDD). Rent costs of the other DSM programs are recorded in Acct 910 "Customer Assistance Expenses" and are recovered through the DSM component of the IRP Clause.
- (4) HEI Sublease is 39% of HEI's total lease agreement. As mentioned in note (2), monthly rent increases to 1.40 per sq ft beginning 6/07.
- (5) HEI plans to allocate the cost of its trainings rooms (currently leased from ASB) located on the 8th floor of ASB Tower, evenly between HEI, HECO and ASB. HECO's share of the total estimated cost of the leased training rooms is calculated as follows:

ASB Tower 8th Floor Usage:			
HECO	1,955	12%	
HEI	9,328	59%	
Training Rooms 1 & 2	4,648	29%	
Total HEI leased square footage	15.931	100%	Per lease agreement.

	Per N	1 onth	Total 2007 (incl GET)	
Base rent per sq ft 1/07-3/07	\$	1.25	\$ 62,231	Per lease agreement.
Base rent per sq ft 4/07-12/07	\$	1.29	\$ 192,666	Per lease agreement.
Est CAM per sq ft	\$	1.15	\$ 229,009	See Note (1) for CAM rate.
			\$ 483,906	
TR1 & TR2 % interest			29%	
 Total allocated portion 			\$ 141,183	
Divided by HEI/HECO/ASB			3	
 Total allocated TR1&TR2 rent 			\$ 47,061	

(6) South Street parking lot is used by HECO employees and consultants. Total rent is calculated as follows:

445 0000 4 4 4

i otal monthly cost per stall	Þ	115	2006 Actual
x Number of participants		40	Assumes no change in participants
x 12 months		12	
x 3% escalation		103%	
Total annual cost	5	6,856	-

CA-IR-300

Ref: HECO T-13, page 26 (Ward Avenue Parking Repair).

Beginning at line 15, HECO T-13 indicates that the Company budgeted for four non-recurring preventative maintenance projects relating to the Ward Avenue parking structure totaling \$764,000. Some of this work had been scheduled in prior years, but was deferred due to budget constraints. Because not all of the projects may be completed in 2007, the Company has proposed a normalization adjustment and included one-half of the total cost, or \$382,000, in the 2007 test year forecast. Please provide the following:

- a. Please confirm that the above summary accurately reflects the referenced testimony. If this cannot be confirmed, please explain.
- b. Please provide a descriptive listing of the four projects, including the estimated cost of each project.
- c. Were any of the four projects anticipated and included in the 2005 rate case test year expense?
 - 1. If so, please identify which project(s) was (were) so included.
 - 2. Please provide the amount of any expense included in the 2005 rate case test year for each project identified in response to part c.1. above.

HECO Response:

a. The above summary is inaccurate. The Company plans to complete the four non-recurring projects identified in the 2007 test year by the end of 2007.

The Company did not propose the normalization adjustment due to an inability to complete these nonrecurring projects in 2007. As stated in Note (1) of HECO-1306 in Mr.

- B. Tamashiro's testimony (T-13), the Company proposed a normalization adjustment to provide a more reasonable level of non-recurring project costs estimated to be incurred in the next several years. Refer to Attachment 1, page 2, of the Company's (T-13) response to CA-IR-3 for a list of future non-recurring projects.
- b. Descriptions of the work to be performed for these four projects, including estimated costs, are

CA-IR-300 DOCKET NO. 2006-0386 PAGE 2 OF 2

included on Attachments 14 and 14-A of the Company's (T-13) response to CA-IR-2.

Attachment 14-A is a confidential document that was submitted pursuant to Protective Order No. 23378.

- c. None of the four projects were included in the 2005 rate case test year expense.
 - 1. Not applicable.
 - 2. Not applicable.

CA-IR-301

Ref: HECO T-14, page 6 (Resource Needs & O&M Expense).

In describing why more adjustments weren't made to test year O&M expense to reflect the fact that a significant number of positions would not be filled at the beginning of 2007, HECO T-14 stated: "The short answer is that that would result in a significant understatement of the O&M expenses expected for 2007, unless upward revisions also were made to reflect the additional overtime, contract services and temporary hires that would have to be incurred or added to accomplish the expected work load." Please provide the following:

- a. Please confirm that no documented studies or analyses were prepared by or for HECO T-14 to evaluate the relationship between changes in employee headcounts and overtime levels. If this cannot be confirmed, please explain.
- b. Please confirm that no documented studies or analyses were prepared by or for HECO T-14 to evaluate the relationship between changes in employee headcounts and retention of contract services. If this cannot be confirmed, please explain.
- c. Please confirm that no documented studies or analyses were prepared by or for HECO T-14 to evaluate the relationship between changes in employee headcounts and retention of temporary hires. If this cannot be confirmed, please explain.
- d. Referring to parts a, b and c above, please provide a copy of all such studies relied upon in the preparation of the referenced testimony.
- e. Referring to parts a, b and c above, please provide a copy of all such studies even if not specifically relied upon in the preparation of the referenced testimony.

HECO Response:

a. HECO confirms that there have been no documented studies or analyses on a company-wide basis prepared by or for HECO T-14 to evaluate the relationship between changes in employee headcounts and overtime levels, contract services, and temporary hires. However, the Power Supply department has undertaken a study to analyze the relationships between the Power Supply department's headcounts and overtime and outside services. This study has been provided in the Company's response to CA-IR-74.

The testimony cited refers to how departments perform critical and required work through the use of nonexempt overtime, unpaid exempt overtime, temporary hires or outside contractors if positions are vacant that would be assigned such work.

CA-IR-301 DOCKET NO. 2006-0386 PAGE 2 OF 2

- b. Please see response to item a. above.
- c. Please see response to item a. above.
- d. Not applicable.
- e. Not applicable.

Ref: HECO T-14, page 8, HECO-WP-1401 & CA-IR-27 (Vacancies).

Page 24 of CA-IR-27 updates and revises the test year average headcounts set forth on HECO-WP-1401. At page 8, HECO T-14 generally describes the Job Vacancy Requisition ("JVR") which begins the recruitment process. Please provide the following:

- a. Referring to revised HECO-WP-1401 (CA-IR-27, p. 24), please provide the number of vacant positions in each HECO department as of May 10, 2007.
- b. Referring to part a. above, please identify the vacant positions by department that does not yet have an approved JVR as of May 10, 2007.
- c. If not overly burdensome, please provide a further breakdown of the vacant positions without JVRs, as supplied in part b. above, by RA and labor class.

HECO Response:

Please see pages 3 through 6 for the report containing the information requested, as of May 10, 2007. All employee count information, number of vacant positions, and the vacant positions for which JVRs have not been received are identified by Department, RA and Employee Type (Full time, Part time, and Temporary).

- a. Please see Column F on pages 3 through 6.
- b. Please see Column I on pages 3 through 6.
- c. All vacant positions identified in Columns H and I on pages 3 through 6 are full time positions.

The test year employee count for the Power Supply Process Area has been increased by five employees to reflect the new organization that will be described in detail by Mr. Giovanni's (T-6) in the Company's forthcoming test year update. Consequently, an Updated HECO-1403 and an Updated HECO-WP-1401 are submitted on pages 7 and 8 to reflect this update.

CA-IR-302 DOCKET NO. 2006-0386 PAGE 2 OF 8

Pages 3 through 6 of this response reflect organizational changes that have occurred since the Company filed its application in the instant proceeding. Due to these changes, the department totals may not tie to the department totals reflected in Updated HECO-1403 and Updated HECO-WP-1401.

			HOY	100	THE COLUMN					
			A	ACIOAL EMPLOTEE	Q Q	ш	L.	g	I	-
DEPARTMENT	DIVISION	RA	FULL	PART TIME TEMP	IP TOTAL	2007 EOY TEST YEAR	DIFF (D - E)	MANAGEMENT TRANSFERS ¹	JVR RECEIVED	JVR NOT YET RECEIVED
		E.							Employee Benefits Administrator (Offered &	1
COMPENSATION AND BENEFITS	EMPL BENEFITS & HLTH SVCS	PFB	8	0	0 8	10	(2)		Accepted)	
COMPENSATION AND BENEFITS	COMPENSATION	PFC	2	0			18		Administrative Assistant	
COMPENSATION AND BENEFITS	DISABILITY MANAGEMENT	PPW	8	0			\$5 \$b.			
INDUSTRIAL RELATIONS	ADMINISTRATION	PPA	e 4	00	0 0	n				
	אווויסר אייטרא אייטרטי	-	0	>		10	3.00		OCC Health & Safety	
OTITI II OATI 8 VEIGI VOTO VETTAO	V+1140	C	Ţ	c			E		Specialist (Offered &	
SAFETY, SECURITY & FACILITIES SAFETY, SECURITY & FACILITIES	ADMINISTRATION	PHA	2	00	0 0	2 2	E		Accepted)	
SAFETY, SECURITY & FACILITIES	FACILITIES OPERATIONS	PHB	14	0	0 14	.0 0	(1)			Custodian
SAFETY, SECURITY & FACILITIES	FACILITIES PLANNING	PHF	8	0						
SAFETY, SECURITY & FACILITIES	SECURITY	PHS	7	0			(3)			Security Coordinator
				3						Security Officer
VP CORPORATE EXCELLENCE	VP CORPORATE EXCELLENCE	P6V	2	0			St 8			
WORKFORCE STAFFING & DEVELOP	ADMINISTRATION	PFA	4	0						
WORKFORCE STAFFING & DEVELOP	CLIENT SERVICES & CONSULTING		10	0		- Ta	5.00			
WORKFORCE STAFFING & DEVELOP	CORPORATE EXCELLECE SUBTOTAL		83	0	0 83	06	(2)			
									Director, Corporate	
CORPORATE COMMUNICATIONS	CORPORATE COMMUNICATIONS	Pac	7				£)		Communications	
VP CORPORATE RELATIONS	CORPORATE RELATIONS	P1V	£ 01	0 -	0 0	2 6	(1)			
			2						Sr. Technical Services	
CUSTOMER TECH APPLICATIONS	CUSTOMER TECH APPLICATIONS	PSR	0	0			(1)		Engineer	
ENERGY SERVICES	ADMINISTRATION	PSA	8	0	0 3	8	- 6		421	
ENERGY SERVICES	CUSTOMER EFFICIENCY PROGRAM	PSD**	11	0 0	Nes .		(4)		Doto Applicat	
FORFCASTS & RESEARCH	FORECASTS & RESEARCH	PSM**	10	0 0		30	(-)		nate Atlaiya	
MARKETING SERVICES	MARKETING SERVICES	PSN	12	0	0 12	NC S	45 - 3		6 (4	F 14
VP CUSTOMER SOLUTIONS	CUSTOMER SOLUTIONS	P1W	2	0						
	CUSTOMER SOLUTIONS SUBTOTAL		51			1000			- 50.00	
CONSTRUCTION & MAINTENANCE	ADMINISTRATION	PDA	ro r				(1)	OOD of oneithous County		I raining Administrator
CONSTRUCTION & MAINTENANCE	CONTROL SECTION	PDC	23 2	5 0	0 0	22	(5)	Move 1 position from PDS		Cierk Typist III
CONSTRUCTION & MAINTENANCE	TRAINING SECTION	PDD*	17							
CONSTRUCTION & MAINTENANCE	WEST OVERHEAD	PDJ*	40	.3634			4 3		8 53	2 53
CONSTRUCTION & MAINTENANCE	EAST OVERHEAD-KOOLAU	PDK*	25	0 0	0 25					
CONSTRUCTION & MAINTENANCE	UNDERGROUND	PDU*	27	0			8		8	
CONSTRUCTION & MAINTENANCE	OPERATIONS	PDS*	12	0		170	(11) M	Move 8 positions from PDP	Sr. Supervisor	55.
	2.8			8 15			Σ:	ove 1 position from PDV	S:	n 194
CONSTBICTION & MAINTENIANICE	Civilian	000	00	c	cc	7	2 2	Move 1 position from PDF		160
	Delle	ב	67	D				Move 2 positions to PDC	92	72
CONSTRUCTION & MAINTENANCE	VEGETATION MANAGEMENT	PDV	2	0	0	-		Move 1 position from PDS		
ENGINEERING	ADMINISTRATION	PBA	7	0 0						e: 33.
ENGINEERING	DEC ENGINEERING	700	77	5 0		7	(6)			
FNGINEERING	STRUCTURAL	PBT	18	0 0	0 0		3		52	20
ENGINEERING	SUBST, PROTECTION & TELECOM	PBY	21							
ENGINEERING	T&D TECHNICAL SERVICES	PBZ	8	0	0 8	80	SC 18		2 3.	6. %.
SUPPORT SERVICES	ADMINISTRATION	PVA	2				ģ			i de
SUPPORT SERVICES	FLEET	PVF	22				(3)		Mechanic Helper	750
		*							Automotive Mechanic	950 3
SUPPORT SERVICES	ELECTRICAL & WELDING SERVICES	PVL	12			er e				2.0
SUPPORT SERVICES	MATERIALS MANAGEMENT	PVM	27	0	0 27	28		(1) Move 1 position to PBZ	0. 01	0 247
SUPPORT SERVICES	PURCHASING	PVP	15							
SYSTEM OPERATION	COMMINICATIONS	PRA	~ 0							
		2					3			

Hawaiian Electric Company, Inc.
Actual Employee Count vs. 2007 EOY Test Year Employee Count as of May 10, 2007

		35				200				
			ACTU	ACTUAL EMPLOYEE	C D	a) (3)	ш	5	Ι	-
DEPARTMENT	NOISIAID	\$	FULL	PART	TEMP TOT		2007 EOY TEST YEAR (DIFF MANAGEMENT (D - E) TRANSFERS ¹	JVR RECEIVED	JVR NOT YET RECEIVED
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		4 3			1. 51	J. 33	00 00		Chief Dispatcher	F 73
					4				Switching Coordinator Operating Engineer (Offered	q
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	F 13				. *			<u> </u>	EFMS Technician System Analyst	E 19
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VP ENERGY DELIVERY	VP ENERGY DELIVERY ENERGY DELIVERY SUBTOTAL	P2V	491	00	0 8	2	509	(16)	7 32	28
FINANCIAL VICE PRESIDENT	FINANCIAL VICE PRESIDENT	P4V	4	0	0	4	4			20 40
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GENERAL ACCOUNTING	CORPORATE ACCOUNTING	PAC	9	0 0	0 0	2	υ ç	300		5. 32
GENERAL ACCOUNTING	PROPERTY ACCOUNTING	PAU	10	00	0 0	10	25		27.1	2(4)
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)	3	5		2	5			Development Specialist
INFO TECHNOLOGY & SVCS	INFRASTRUCTURE & OPERATIONS	PEI	22	0	0	22	24	(2) Move 2 positions to PE(0	
INFO TECHNOLOGY & SVCS	MAILING SERVICES	PEM	~ *	0	0	7	ω •	(1)	Mailing Services Coordinator	or .
MANAGEMENT ACCTG & FIN SVCS	BUDGETS	PKC	7 4	00	00	7	7			
MANAGEMENT ACCTG & FIN SVCS MANAGEMENT ACCTG & FIN SVCS	FINANCIAL ANALYSIS ERP ADMINISTRATION	PKF PKM	e e	00	0 0	ကက	ကက		55 28	5. 78
MANAGEMENT ACCTG & FIN SVCS	TREASURY	PKT	5	0	0	5	2			(8)
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	FINANCE SUBIOIAL		neı.	>	>	061	133	(6)	Overstaff approved -	35552
LEGAL	LEGAL	PNC	12	0	0	12	5	-	Associate General Counsel	
LEGAL VP GENERAL COUNSEL	LAND & RIGHTS OF WAY VP-GENERAL COUNSEL	PNL P5V	2 2	00	00	5 2	5 2	£ 33	0.73	6 33
	GENERAL COUNSEL SUBTOTAL		19	0	0	19	18	-	30	2 III
EDUCATION & CONSUMER AFFAIRS	EDUCATION & CONSUMER AFFAIRS	PQE	9	0	0	9	80	(2)	Administrator	n =
				1	18 5				Clerk Typist III Sr. Regulatory Analyst (Filk	18
REGULATORY AFFAIRS	REGULATORY AFFAIRS	PNP	80	0	0	80	15	(2)	start 5/14/07)	3
								1.0	Offered & Accepted)	Unector Position (Title to be developed)
				18)					Regulatory Analyst II	Legal Assistant
VP GOVT & COMMUNITY AFFAIRS	VP GOVT & COMMUNITY AFFAIRS	P3V	7	0	0	7	7			
O I ATIMIMINI COLUMNI	GOVT & COMMUNITY AFFAIRS SUBTOTAL	5	21	0	0	21	30	(6)		. 2
ENVIRONMENTAL	ADMINISTRATION AIR QUALITY & NOISE	PJB	4 5	00	00	4 ro	4 9	(1)		Sr. Environmental Scientist
ENVIRONMENTAL	CHEMISTRY	PJC PJC	9 1	0 0	0 0	9 1	9 0		* 3	C
POWER SUPPLY ENGINEERING	WATER & HAZARDOUS MATERIAL ADMINISTRATION	PYA	~ 6	00	00	3 ~	o m	(5)	2 5	Environmental ocientist
POWER SUPPLY ENGINEERING	SUPPORT STAFF PS TECHNICAL SERVICES	PYC	2 %	00	00	2 0	2 0	41	Sr Staff Engineer - Control	0
POWER SUPPLY ENGINEERING	POWER PLANT ELECT ENGRG	PYF	10	0	0	100	12	(2)	Engineer II - Electrical	0
POWER SUPPLY ENGINEERING	POWER PLANT DRAFTING	PYG	2	o	o	2	- 5		Engineer II - Electrical	
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POWER SUPPLY OPER & MAINT	HONOLULU STATION OPERATIONS	E H	2 88	0	0	7 88	27	Ope 1 to P	Operator Trainee to transfer to PIW 5/28/07			p p
SUPPLY OPER & MAINT	KAHE STATION OPERATIONS	PIK	09	0	0	90	61	(1)		Operator Trainee		-1-1
POWER SUPPLY OPER & MAINT	KAHE STATION MAINTENANCE	PIL	28	0	0	28	33	(2)		Pipefitter Mechanic Pipefitter Mechanic		P
					50 - 51, 53			3 1 3		Welder (Offered & Accepted) Control Technician Control Technician		1 1 1
POWER SUPPLY OPER & MAINT	MAINTENANCE ADMINISTRATION	PIM	2	0	0	2	ю.	(1)			Rotating Equipment Specialist	17
SUPPLY OPER & MAINT	HONOLULU STATION MAINTENANCE	PIN	10	0	0	10	12	(2) Mov	(2) Move 1 position to PIP	Welder (Offered & Accepted)		
POWER SUPPLY OPER & MAINT POWER SUPPLY OPER & MAINT	OPERATIONS ADMINISTRATION PI ANNING AND ENGINEERING	PIO BIB	2 2	00	00	22 22	24 24	6	U _m y)	Resoluce Planner		1
					>	1	4			Predictive Maintenance		1
POWER SUPPLY OPER & MAINT	TRAVELING MAINTENANCE	PIT	70	0	0	20	81	(11)		Specialist Pipefitter Mechanic	2 62	-
						•		(Pipefitter Mechanic	400 100	1
	J. 18			- 10.00	1. 8		15 98			Control Technician Welder	s 75	10.00
										Welder (Offered & Accepted)		
	81	64		8	8		84			Condenser Cleaner (Offered	SE SE	
		40		÷.	4.	e'		±1		Insulator (Offered &		1
	100									Insulator (Offered &		1
										Accepted)		1
		W 3		3 3	8.8	× 4	0.0	22.30		Insulator		11
CHANGE THE CONTRACT OF SHEET O		0.000	70100	A CONTRACT		160 MACOUNT	OR LEAD	William W.		Operator Trainee (Filled start		1
POWER SUPPLY OPER & MAIN	WAIAU STATION OPERATIONS	A Mi	89	0	0	69	99	S		5/14/07) Operator Trainee (Filled start		-1
		_		.9				-34		5/14/07) Operator Trainee (Filled start 5/14/07)		-
										Operator Trainee (Filled start		1
		Ç-c			100	e:				Operator Trainee (Filled start 5/14/07)		
		le l			8	>		k		Operator Trainee (Offered & Accepted)		P
								i.		Shift Supervisor (Offered & Accepted)		1
POWER SUPPLY OPER & MAINT	WAIAU STATION MAINTENANCE	PIX	28	0	0	28	32	(4)		Control Technician	Maintenance Helper	
										Sr. Electrician (Offered & Accepted)		- 1
	TOTAL STREET	ā	·	c	c	c	c			Welder (Offered & Accepted)	48	- 1
POWER SUPPLY SERVICES POWER SUPPLY SERVICES	POWER PURCHASE	PIC	၁ ဖ	00	00	n 0	9 0	× 15		60 30	2 1:	10.1
POWER SUPPLY SERVICES	FUEL RESOURCES	PIF	m	0	0	က	4	(1)		Fuels Contract Administrator		- 41
POWER SUPPLY SERVICES	FUEL INFRASTRUCTURE	PIJ ²	0	0	0	0	n	(3)		Director, Fuels Infrastructure (Offered & Accepted)	5	- 4
										Staff Engineer		
	in c	- 86		+	=0		-00	#		Olan Liginesi		7

Hawaiian Electric Company, Inc.
Actual Employee Count vs. 2007 EOY Test Year Employee Count as of May 10, 2007

A				ACTL	AL EMPLC	ACTUAL EMPLOYEE COUNT	<u></u>					
CENERATION BLONG Page Pa				4	8	v	٥	ш	u.	ဗ	Ι	-
Chicago Administration PAM 2 0 0 2 2 2 2 2 2 2	DEPARTMENT	DIVISION	RA	FULL	PART			2007 EOY EST YEAR	DIFF (D - E)	MANAGEMENT TRANSFERS ¹	JVR RECEIVED	JVR NOT YET RECEIVED
CREMENTON BIDDING PYGF COLOR C	SYSTEM PLANNING	ADMINISTRATION	PXA	2	0	0	2	2				
TRANSMINING PYONE SUPPLY SUBTORY PYONE SUBTORY	SYSTEM PLANNING	GENERATION BIDDING	PXB ²	0	0	0	0	8	(3)		Director, Generation Bidding (Offered & Accepted)	Project Manager
TRANSMISTORY PLANNING PYT 2 0 0 0 2 2 2 2	SYSTEM PLANNING	GENERATION PLANNING	PYB	o.	C	0	on	6				Project Manager
Provide the provided by the	SYSTEM PLANNING	TRANSMISSION PLANNING	PYT	8	0	0	0	0 00				
PLIANCE NUMERALIDIT NUMERALIDIT NUMERALIDIT PLIANCE NUMERALIDIT PLIANCE NUMERALIDIT NUMERALIDIT NUMERALIDIT NUMERALIDIT NUMERALIDIT NUMERALIDIT NUMERALIDIT NUMERALIDIT	VP POWER SUPPLY	VP POWER SUPPLY	P7V	2	0	0	2	2				
PLIANCE PREMINETE ALTON PWA 7 0 0 0 7 4 (1) PREMINETE ALTON PWA 7 0 0 0 1 3 (1) PREMINETE ALTON PWA 7 0 0 0 1 3 (1) PREMINETE ALTON PWA 12 0 0 0 1 1 (1) PWA 12 0 0 0 0 1 1 (1) PWA PW		POWER SUPPLY SUBTOTAL		416	0	0	416	462	(46)			
PRESIDENTS OFFICE ADMINISTRATION PRIX 3 0 0 3 4 (1)	CORPORATE AUDIT & COMPLIANCE	INTERNAL AUDIT	PNA	7	0	0	7	8	(1)			Internal Auditor
PRESIDENT - FICE OLD TOTAL	CORPORATE AUDIT & COMPLIANCE	ADMINISTRATION	PNX	3	0	0	3	4	(1)			Secretary
VERTICAL PROJECTS VERT	PRESIDENTS OFFICE	PRESIDENTS OFFICE	Р9Р	က	0	0	3	က				
VA SPECIAL PROLECTS SUBTOTAL VA SUBTOTAL V		PRESIDENT - HECO SUBTOTAL	ار	13	0	0	13	15	(2)			
ADMINISTRATION Purp 21 0 0 1 1 11 14 15 15 15 15 15	VP SPECIAL PROJECTS	VP SPECIAL PROJECTS		0	0	0	0	-	(1)			VP Special Projects
ADMINISTRATION PWA 12 0 0 12 12 12 12 12		SPECIAL PROJECTS SUBTOTAL		0	0	0	0	1	(1)			
PLANNING & DESIGN PWP 21 0 0 21 27 (6) Jr. Drafter	CUSTOMER INSTALLATION	ADMINISTRATION	PWA	12	0	0	12	12				
TONS ENGINEERING & METER	CUSTOMER INSTALLATION	PLANNING & DESIGN	PWP	21	0	0	21	27	(9)		Jr. Drafter	Jr. Drafter
TION ENGINEERING & METER PWX 11 0 0 11 14 (3) Accepted)												Jr. Customer Planner
ENGINEERING & METER							1					Jr. Customer Planner
TON												Jr. Customer Planner
TON ENGINEERING & METER PUXX 11 0 0 11 14 13 Supervisor, meter (Untered & Supervisor)	. No.										87	Customer Engineer
The control of the	CUSTOMER INSTALLATION	ENGINEERING & METER	PWX	Ŧ	0	0	£	4	(3)		Supervisor, Meter (Offered & Accepted)	Meter Engineer
TECHNOLOGIS PING							11				Director, Advanced Meter	
TIONS STATE OF PROJECTS THICK STATE OF THE OF	CHOLL	CHOCK COLUMN	0	4			0	0			Initiastructure	
TECHNOLOGY TEC	ENERGY PROJECTS	ENERGY PROJECTS	DNG.	ο,		0	n •	ית				
SECONDAIRS SUBTOTAL FORM	SK VP ENERGY SOLUTIONS	SK VP ENERGY SOLUTIONS	Ser	4 0		0,	4 0	4 (
ADMINISTRATION G & BILLING PCA*** 4	LECHNOLOGY	SP VP ENERGY SOLITIONS SHBTOTAL		7 20			9	2 09	(0)			
CUST ACCOUNTING & BILLING PCB 6 0 6 6 7,7 CUST ACCOUNTING & BILLING PCB 5 0 0 5 5 0 CUSTOMER FIELD SERVICES PCF*** 4 0 1 5 5 0 FIELD SERVICES PCG**** 26 0 0 26 26 So CUSTOMER ASSISTANCE CENTER PCM 34 0 0 29 30 (1) Assistance Center METER READING PCM 34 0 0 34 34 Account Services Clerk CUSTOMER ACCOUNT SERVICES PCM 34 0 0 16 5 5 CUSTOMER ACCOUNT SERVICES PCS 5 0 0 5 5 Account Services Clerk CUSTOMER ACCOUNT SERVICES PCS 5 0 0 5 5 Account Services Clerk ATIONS GOVERNMENTAL RELATIONS PNI 2 3 3 (1) Account S	CHSTOMER SERVICE	ADMINISTRATION	PCA***	4	l		4	2	(1)			Onerations Analyst
CREDIT C	CUSTOMER SERVICE	CUST ACCOUNTING & BILLING	PCB	9		0	œ	9				To financia con control con control con control con control co
CUSTOMER FIELD SERVICES PCF*** 4 0 1 5 5 5 5 5 5 5 5 5	CUSTOMER SERVICE	CREDIT	PCD	5		0	2	5				
FIELD SERVICE & COLLECTIONS PCG*** 26 0 0 26 26 26 26 26	CUSTOMER SERVICE	CUSTOMER FIELD SERVICES	PCF***	4		-	2	5				
CUSTOMER ASSISTANCE CENTER PCH 29 0 29 30 (1) Supervisor, Customer Assistance Center METER READING PCM 34 0 0 34 34 Account Services Center PAYMT PROCESS & SUPPORT CTR PCM 16 0 0 16 17 (1) Account Services Clerk CUSTOMER ACCOUNT SERVICES PCS 5 0 0 5 5 Account Services Clerk SR VP OPERATIONS PRATIONS PN 2 2 3 (1) Account Services Clerk ATIONS GOVERNMENTAL RELATIONS PNI 2 0 0 2 3 (1) Account Services Clerk ROS FING INTEGRATED RESOURCE PLANNING PVP 6 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7	CUSTOMER SERVICE	FIELD SERVICE & COLLECTIONS	PCG***	26		0	26	26				
COMPANY TOTAL CONTRACT ASSISTANCE CEN LEK PCH 29 0 0 29 30 (1) Assistance Center			-		134						Supervisor, Customer	
MELEK REAUNING CUSTOMER SUPPORT CTR PCM 34 34 34 34 34 34 34 3	CUSTOMER SERVICE	CUSTOMER ASSISTANCE CENTER	HCH.	29	0	0	29	30	(1)		Assistance Center	
CUSTOMER ACCUESS & SUPPORT CIRC Total Total Circ	CUSTOMER SERVICE	METER READING	E C	45	0 0	0 0	45	45	195			
SR VP OPERATIONS SUBTOTAL 131 0 0 0 0 0 0 0 0 0	CUSTOMER SERVICE	PAYMI PROCESS & SUPPORT CIR	7 6	16	0	0	9 .	- "	(1)		Account Services Clerk	
SN VP OF EACH CONSTITUTIONS PN CONPERATIONS SUBTOTAL 131 0 1 132 135	CUSTOMER SERVICE	COSTOMER ACCOUNT SERVICES	220	000	0	0 0	0 0	0 0				
COMPANY TOTAL	SKYP OPERATIONS	SA VE OPERATIONS		424		D *	423	125	(3)			
GOVERNMENTAL RELATIONS		SA ST OTENATIONS SOLICISM	1	2		+	701	22	(2)			Director Government
INTEGRATED RESOURCE PLANNING PYP 6 0 0 6 6 6 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GOVERNMENTAL RELATIONS	GOVERNMENTAL RELATIONS	PN	2		0	2	8	(1)			Relations
SR VP PUBLIC AFFAIRS SUBTOTAL 11 0 0 11 12 12 12 12 12 13 13 14 14 15 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14	INTEGRATED RESOURCE PLNG	INTEGRATED RESOURCE PLANNING	РУР	9		0	9	9				
AFFAIRS SUBTOTAL 11 0 0 11 12	SR VP PUBLIC AFFAIRS	SR VP PUBLIC AFFAIRS		0		0	e :	e i				
1455	300	SR VP PUBLIC AFFAIRS SUBTOTA	-	11		0	11	12	(3)			
		COMPANY TOTAL		4466	*		4460	1551	1404)			

^{*}EOY Test Year counts for RA PDS includes RA's PDD, PDJ, PDK, R PDU
**EOY Test Year counts have been adjusted to exclude employees covered under the DSM surcharge adjustment docket.
***EOY Test Year employee counts have been adjusted to exclude employees per request from Customer Service.

**Transfers of employees/positions from one responsibility area to another:

**Dpdated to reflect Production's revised staffing plan as stated in the June 2007 Update, HECO T-6.

Hawaiian Electric Company, Inc. Updated 2007 Test Year Average Calculation Updated HECO-WP-1401 (***Reflects June 2007 Update, HECO T-6)

				(Kellect	s June 20	or opua	ie, neci	J 1-0)		-	i	1	1	Tast Vasu
Dept	Jan-07	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Total	Test Year Average
Comp & Ben	15	15	15	15	15	15	15	15	15	15	15	15	15	195	15
Ind Rel	9	9	9	9	9	9	9	9	9	9	9	9	9	117	9
SSF	47	47	47	47	47	47	47	47	47	47	47	47	47	611	47
VP-Corp Exc	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
WFSD	17	17	17	17	17	17	17	17	17	17	17	17	17	221	17
	90	90	90	90	90	90	90	90	90	90	90	90	90	1170	90
Corp Comm	10	10	10	10	10	10	10	10	10	16	10	10	10	130	10
VP-Corp Rel	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
VI COIPTION	12	12	12	12	12	12	12	12	12	12	12	12	12	156	12
CustTechAp	10	10	10	10	10	10	10	10	10	1	10	10	10	130	10
Engy Svcs*	26	26	26	26	26	26	26	26	26	26	26	26	26	338	26
Less: DSM	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-117	20
**Add Back: DSM	2	2	2	2	2	2	2	2	2	2	2	2	2	26	-9 2
	12	12	12	12	12	12		12	12	12	12	12	12	156	42
Fcst&Res*							12	COMMON	1774-000	1000000	179120		-27997.50		12
Less: DSM	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-26	-2 6
IRP	6	6	6	6	6		6	6	6	6	6	6	6	78	6
Mktg Svcs	12	12	12	12	12	12	12	12	12	12	12	12	12	156	12
VP-Cust Sol	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
	57	59	59	59	59	59	59	59	59	59	59	59	59	765	59
C&M	220	220	220	220	220	220	220	220	220	220	220	220	220	2860	220
Engineering	85	85	85	85	85	85	85	85	85	85	85	85	85	1105	85
Supp Svcs	85	85	85	85	85	85	85	85	85	85	85	85	85	1105	85
Sys Op	117	117	117	117	117	117	117	117	117	117	117	117	117	1521	117
VP-En Del	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
	509	509	509	509	509	509	509	509	509	509	509	509	509	6617	509
CID	53	53	53	53	53	53	54	54	54	54	53	53	53	693	53
Engy Proj	9	9	9	9	9	9	9	9	9	9	9	9	9	117	9
SVP-EnSol	4	4	4	4	4	4	4	4	4	4	4	4	4	52	4
Tech	3		3	3	3	3	3	3	3	E 182	3	3	3	39	3
1 0011	69	69	69	69	69	69	70	70	70		69	69	69	901	69
Financial VP	3	3	3	3	3	3	3	3	3	3	3	3	3	39	3
Gen Acctg	26	26	26	26	26	26	26	26	26	26	26	26	26	338	26
InfoTech	94	94	94	94	94	94	94	94	94	94	94	94	94	1222	94
MAFS	22	22	22	22	22	22	22	22	22	22	22	22	22	286	22
	9	9	9	9	9	9	9	9	9	9	9	9	9	117	9
RiskMgt	154	154	154	154	154	154	154	154	154	154	154	154	154	2002	154
Logol	16	16	16	16	16	16	16	16	16	16	16	16	16	2002	16
Legal VPGen	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
VEGEN	18	18	18	18	18	18	18	18	18	18	18	18	18	234	18
F 1 0 0 1 M								2							
Ed & Cons Aff	8		8	8	8	8	8	8	8	8	8	8	8	104	8
Reg Affairs	8		8	8	8		8	15			1953		15	146	11
VP-Gov & Com	7		7	7	7		7	7	7	100	7		7	91	7
- 10	23	23	23	23	23	23	23	30	30		30	30	30	341	26
Cust Svc	134		134	134	134		134	134	134		134		134	1742	134
Adjustment	-7	-7	-7	-3	-3	-3	-1	-1	-1	-1	-1	-1	-1	-37	-3
SVP-Oper	3		3	3	3		3	3	3	7/	3		3	39	3
	130		130	134	134	134	136	136	136		136		136	1744	134
CorpAudComp	12	12	12	12	12	12	12	12	12	12	12	12	12	156	12
President	5		5	5	5	5	5	5	5		5		5	65	5
	17	17	17	17	17	17	17	17	17	17	17	17	17	221	17
Gov Rel	3		3	3	3		3	3	3		3		3	39	3
SVP-Pub Aff	2		2	2	2	2	2	2	2		2		2	27	2
20 0000 ST ST ST	5	5	5	5	5		5	5	5		5		5	66	2 5
Environ	24		24	24	24		24	24	24		24	24	24	312	24
Production	383	383	383	383	383	383	383	383	383	383	383	383	383	4979	383
***Adjustment	000	000	555	500	000	1	200	5	5		5	5	5	33	3
PwrSup Eng	46	46	46	46	46	46	46	46	46		46		46	598	46
VP-Pwr Sup	2	2	2	2	2	2	40	2	2	2	2	2	2	26	2
vr-rwi oup	455	455	455	455	455	456	457	460	460		460	460	460	5948	458
VP-SpecProj						2000				-				26	
vi -opecrioj	2 2	2 2	2 2	2	2 2	2	2	2 2	2 2	2 2	2	2 2	2	26	2
						4540									
	1541	1543	1543	1547	1547	1548	1552	1562	1562	1563	1561	1561	1561	20191	1553

^{*}Excludes 11 employees covered under the DSM adjustment surcharge and reflects Customer Service's revised 2007 staffing plan.
**Updated to reflect D&O 23258: Two DSM employees previously removed from employee counts are added back.

^{***}Updated to reflect Production's revised staffing plan as stated in the June 2007 Update, HECO T-6.

Hawaiian Electric Company, Inc. Updated Summary Recorded and Average Number of Employees Updated HECO - 1403

(***Reflects June 2007 Update, HECO T-6)

		100	June 2007 Up		an area		(2)	72	
		Α	В	С	D	E	F	G	Н
D	sidanka Office	2004 Recorded EOY*	2004 Average	2005 Recorded EOY	2005 Average	2006 YTD Recorded 9/30/06	2006 Projected EOY	Updated 2007 EOY Test Year	Updated 2007 TEST YEAR AVERAGE
Pres	sident's Office Corporate Audit & Compliance (Formerly Internal Audit)	6	6	11	8	11	9	12	12
	President's Office	4	3	5		2	2	5	5
	Subtotal	10	9	16		13	11	17	17
VP-	Corporate Excellence	10	3	10	10	10		- 17	- "
	Compensation & Benefits	14	14	13	14	12	13	15	15
	Industrial Relations	9	9	9		9	9	9	9
	Safety, Security & Facilities	52	42	44	49	46	42	47	47
	Workforce Staffing & Development	17	16	16		17	16	17	17
	VP-Corporate Excellence's Office	2	2	1	2	2	2	2	2
	Subtotal	94	83	83	91	86	82	90	90
VP-	Finance	0.5	0.5	00	0.5	00		00	0.0
	General Accounting Information Technology & Services	25 90	25 90	26 95	25 94	26 92	26 95	26 94	26 94
	Management Accounting & Fin Svcs	20	21	20		22	22	22	22
	Risk Management	9	9	9		9	9	9	9
	Financial VP/Treasurer's Office	3	3	3		4	4	3	3
	Subtotal	147	148	153	152	153	156	154	154
VP-	General Counsel	22. 34.53	(2018)						823
	Legal	16	14	16		15	16	16	16
	VP-Gen Counsel's Office	2	2	2		2	2	2	2
10	Subtotal	18	16	18	18	17	18	18	18
	VP-Energy Solutions*	*****							
	Customer Installations	43	0	49	46	46	44	53	53
	Energy Projects Technology	8	0	9		8	8	9	9
	Sr. VP-Energy Solutions' Office	2	0	4		3	3	4	4
	Subtotal	57	99	65	62	61	59	69	69
\/P-	Customer Solutions*	51	55	00	02	01	55	03	03
1000	Customer Technology Applications	9	0	8	9	8	8	10	10
	Energy Services**1	14	0	17		16	17	19	19
	Forecasts & Research**	9	0	10		9	9	10	10
	Integrated Resource Planning	4	0	5	4	5	5	6	6
	Marketing Services	11	0	12		11	11	12	12
	VP-Customer Solutions' Office	2	0	2		2	2	2	2
	Subtotal	49	46	54	53	51	52	59	59
SSOLKING	VP-Operations	100		100	100	405			101
	Customer Service Sr. VP-Operations' Office	126 2	118 2	130 3	129 2	125 3	126 3	133	131
	Subtotal	128	120	133	131	128	129	136	134
VP-	Energy Delivery	120	120	155	151	120	123	130	154
Charles III	Construction & Maintenance	219	213	215	218	209	218	220	220
	Engineering	79	79	86	85	85	84	85	85
	Support Services	81	76	80	80	77	81	85	85
	System Operation	100	96	112	107	108	105	117	117
	VP-Energy Delivery's Office	2	3	2	2	2	2	2	2
	Subtotal	481	467	495	492	481	490	509	509
VP-	Power Supply	-	-			- 0.0) (m) (m)	
	Environmental Power Supply Engineering (formerly Planning & Engineering)	24	21	22		22	22	24	24 46
	Power Supply Engineering (formerly Planning & Engineering) Power Supply Operations & Maintenance***	41 296	46 275	41 299	42 299	37 306	40 314	46 353	353
	Power Supply Services***	32	18	30	The second secon	29	29	35	33
	VP-Power Supply 's Office	2	2	2		2	2	2	2
	Subtotal	395	362	394		396	407	460	458
VP-	Special Projects	3	3	3		3	3	2	2
Sr.	VP-Public Affairs					The state of the s			
	Governmental Relations	3	3	3		3	2	3	3
	Sr. VP-Public Affairs' Office	2	2	2		3	3		2
ARREST I	Subtotal	5	5	5	5	6	5	5	5
VP-	Corporate Relations	1/2-	12						-
	Corporate Communications	9	9	10		8	8		10
	VP-Corporate Relations' Office	2	2	2		3	3 11		2
V/P	Subtotal Government & Community Affairs	11	11	12	12	11	11	12	12
	Education & Consumer Affairs	6	6	8	7	8	8	8	8
	Regulatory Affairs	5	5	7		7	7	15	11
	VP-Gov't & Comm Affairs' Office	7	5	7		7	7	7	7
	Subtotal	18	16	22	50	22	22	30	26
	Company Total	1416	1385	1453	1451	1428	1445	1561	1553

^{* 2004} Recorded EOY counts reflect reorganizations that occurred in 2004 after the 2005 test year filing; only process area averages are available
** Employee counts have been adjusted to exclude employees covered under the DSM surcharge adjustment docket from all years

¹ Updated to reflect D&O 23258: DSM employees previously removed from employee counts are added back

[&]quot;" Updated to reflect Production's revised staffing plan as stated in the June 2007 Update, HECO T-6.

Ref: HECO WP-1502, page 2 (AFUDC Debt).

In discussions with Company personnel, a calculation was provided reflecting "Adjustment to AFUDC" and excerpts from a financial model projection captioned, "CapX: Update – AFUDC/CIAC by func." Please provide the following:

- a. Explain the assumptions and procedures employed to develop the basic underlying financial forecast of CapX and related AFUDC.
- b. Provide a complete copy of all outputs from the financial model used to project AFUDC.
- c. Explain whether any different assumptions underlie the AFUDC projections in comparison to test year capital additions for rate base inclusion.
- d. Describe each "Adjustment to AFUDC" that was made to depart from the basic projections.

HECO Response:

a. As described in HECO T-16 pages 3-4, Project Managers prepare estimated expenditures for their projects, including timing of expenditures and designation of when to start and stop AFUDC. AFUDC on specific capital projects and programs is calculated by the Pillar software system (Pillar).

For projects, AFUDC is calculated on a monthly basis by multiplying the cumulative project-to-date qualified capital expenditures by a monthly AFUDC rate from the start to the stop date. For projects with cash contributions, AFUDC begins accruing the month after when the estimated capital expenditures exceeds the estimated cash contribution amount.

Because programs are comprised of numerous projects with various durations and Pillar cannot track the project by project duration, the AFUDC rate applied to qualified monthly program expenditures is adjusted for the impact of project duration based on historical AFUDC incurred on programs.

- All outputs used to project AFUDC have previously been provided to the Consumer
 Advocate's consultant on May 2, 2007, which are on pages 3-5 of this response.
- c. The assumptions for the AFUDC projections are the same as those used for test year capital additions.
- d. After the finalization of the Pillar files, the Project Managers are asked to review the plant additions including estimated costs and plant addition dates. Adjustments subsequent to the finalization of the Pillar files are done manually. See page 5 of this response for the description of each manual adjustment.

8/2/2006	92						"Capk: Up	"CapX: Update - AFUDC/CIAC by func	CYCLAC by fu	z					2	2:23PM
#		Prol Type	Jan 07 Func_Cat Pro_Type UPDATE96	Feb 07 UPDATE06	Mar 07 UPDATE06	Apr 07 UPDATE06	May 07 UPDATE08	Jun 07 UPDATE06	Jul 07 UPDATE00	Aug 07 UPDATE06	Sep 07 UPDATE06	Oct 07 UPDATE06	Nov 67 UPDATE08	Dec 07 UPDATE06	FY07 UPDATE08	
430			\$612	\$742	888	\$1,035	\$1.183	\$2.689	\$3.755	66.33	646 063		330 034	1		
430		Pom	0	0	0	٥	0			2	206,014	01000	007'001	200,007	\$178,336	
53		£	0	0	0	0	, ,	· c	•	9 (> (o (0	0	0	
430		Property	0	0	0	٥	. c		•	5	.	9 (o :	0	0	
430			\$612	27.47	CARR	£1 025	2	0		9	9	0	0	0	0	
430	Commu	Pom-M	2003	2	8	CEN'I C	3	£2,689	\$3,756	\$6,222	\$16,982	\$35,410	\$50,255	\$58,562	\$178,336	
430	Commun		3	2 °	200	1	1	283	1 88	3	283	£83	X 83	283	\$5,917	
430			0 20		•	o	0	0	0	0	0	0	0	0	0	
3 5			55,083	56,928	\$6,928	¥,885	¥,865	£363	\$4,322	FA.783	\$2,487	\$2,429	\$1,773	\$1,773	\$50.789	
3		Ē	8.18	\$8,332	\$9,859	\$11,927	\$13,438	\$14,859	\$8,836	\$9,408	\$10.044	\$10,821	\$8.795	\$5,456	\$117.982	
8	Commu		169,112	\$15,764	\$17,380	\$17,385	\$18,896	\$19,715	\$13,850	\$14,664	\$13,023	\$13.743	\$11.061	\$7.72	\$174 688	
\$30	Comp/O		23	\$801	\$23	\$23	\$601	\$23	233	\$1.879	8	223	1050	10	63.863	
83	Comp/O	Person	•	0	0	0	0	0				•	3	•	200,04	
\$3	Comp/D	Pop	\$75,418	\$78,933	\$72,435	\$77,483	\$60,640	266 739	SK0 446	671 613	977	6777	0	0 000		
430	Compa'O		\$75,440	\$79,533	\$72.458	\$77.506	\$61 241	26.8 76.1	CKO 460	679 900	#1 4, THO	- T- 10	יוס'סוג	907'90	1070/0/00	
430	Distribut	Fo.	0	c	c		!		on 'en	70000	404'7/e	107410	\$/0°0/¢	16.79	2007,120	
430	Distribut		595 500	200 457	COS 254	0		0	0	0	•	0	0	0	0	
63	Oletribus		£22 047	104'004	100'00	000	\$86,073	896,968	\$96,856	\$86,860	\$95,486	\$94,721	\$95.447	\$85,200	\$1,148,885	
430	Oletribus		670 780	\$10,016	474'RIG	\$16,588	\$20,232	\$16,826	\$16,939	\$18,611	\$24,003	\$18,887	\$16,791	\$17,940	\$227,793	
1 2	Detro		89/67*	9/8/974	1	\$24,179	\$24,382	\$25,126	\$22,834	\$28,733	\$39,481	529,171	\$27,741	\$30,240	\$337,405	
3 5	Dietribus		9	0	0	0	0	0:	0	0	0	0	0	o	0	
3 5	O. C. C.		37,400	\$2,405	\$2,405	28 23	\$623	\$823	\$823	\$823	\$823	\$823	\$823	\$48,850	\$62,845	
3		5	\$18,723	\$21,201	\$22,889	\$40,946	\$32,912	\$29,543	\$29,417	\$35,512	\$27,438	\$29,338	\$28,160	\$9,865	\$325,965	
3	Ustrada	,	\$169,414	\$167,472	\$167,123	\$178,102	\$173,432	\$169,406	\$166,968	\$179,538	\$187,231	\$172,940	\$168,961	\$202,086	\$2,102,684	
3 3	General	5	0	•	•	0	0	0	0	0	0	0	0	0	o	
3 3	General	E .	•	0	0	0	0	0	0	0	0	. 0	0			
3	Constant	E C	8	8	34	3	2	8	3	3	3	8	S	S	S	
8	General		8	2	8	8	8	2	3	3	a	S	5	S	5	
ş	Land	Proj-LD	0	0	0	•	0	•	0	0		} <		3	3	
\$30	Land		0	0	0	0	0		0	0	٥					
430	Non-Sie	Ē	\$30,021	\$30,750	\$31,472	\$32,254	\$32,987	\$60,342	\$82 741	580 223	St11 738	C122 EGO		6456 463	2000	
430	Non-Ste		\$30,021	\$30,750	\$31,472	\$32,254	\$32,987	\$80,342	\$82.741	5.00 333	6111720	C422 KBA	PAEC EAC	200,100	100 000	
\$30	Steam	Pomer	2980	\$860	983	\$960	\$960	2960	0968	0803	908	0909	200		444 600	
\$30	Steam	Pomit	\$3,667	\$3,667	\$3,667	\$3,667	\$3,667	\$3,667	K3 667	23 657	13 667	63 697	2000	100	900,114	
8	Steam	Pgm-M	0	0	0	0	0	6			8	20'04	1865	180.54	10.4	
\$3	Steam	PgmXH	0	0	0			•	•	> 0	•	э (9 (0	0	
430	Steam	Proj	\$51,296	\$54.923	\$50 380	650 800	000 000	664 220	700 050		•	•	0	•	0	
430	Staam	Project	0	•	0		0		40c'oce	2	403,44B	\$58,245	\$69.971	\$85,569	\$705,508	
430	Steam		\$55.923	\$59,550	857 018	CKK R17	664 947	656 963	0		2	9		0	٥	
630	Smichrol Pom-	Pomer	6334	6370	910	11000	5	200,000	10,504	\$62,363	\$68,076	\$63,671	\$74,596	\$90,283	\$761,118	
0644	A PARTY OF THE PAR		2		9	3	*/48	21,346	23	\$748	\$1,346	533	\$748	\$1,346	\$9,700	
5	Management	Pojupa ravad	2311 rouse-onstroy-upd revised pit adds 5702.CT	2.СП				Page 1 of 4							Version: Jun04	Yunot

8/2/2006	9						CapX: U	pdate - AFUD	"CapX: Update - AFUDC/CIAC by func	2					7	2:23PM
#	Func Cat	EE# Func_Cat Pro_Type	Jan 07 UPDATE06	Feb 07 UPDATE06	Mar 07 UPDATEO	Apr 07 UPDATEOS	May 07 UPDATEDS	Jun 07 UPDATE06	Jul 07 UPDATE06	Aug 07 UPDATEO	Sep 07 UPDATE06	Oct 07 UPDATE08	Nov 07 UPDATEGE	Dec 07 UPDATE06	FY07 UPDATEOR	
430	Structural	P.	174,02	\$3,884		\$3,587	\$3,670	\$3,139	\$3.913	2	55.32	67 154	CB 607	640 040	1000	
430	Structural			\$4,632	\$6.326	\$3,917	2,419	× 485	\$4244	25.301	SR RAD	67.465	2000	414,335		
430	Transmi	Ē		0		0	0	0						8/0'01#		
4 30	Transmi	nt Pgm-CIAC		\$1,757		\$1,757	\$1,767	\$1,757	\$1,757	21 757	\$1.757	24 757	747 757	0 62, 13		
8	Transmi	H H	\$17,539	\$16,362	\$17,142	\$17,221	\$15,892	\$16,296	\$18,801	\$16,355	\$16.399	\$15.934	\$18.472	777 A12		
8	Transmi		28.	148 1		\$2,963	\$2,380	\$2,925	\$1,900	\$625	\$651	551	3	S		
3 5	Transmi	A	\$1,909	\$1,861	,	\$6,823	\$7,028	\$7,155	\$6,835	\$6,985	\$7,196	\$6,821	\$1,979	\$2,197	\$58,891	
73	Tone	5	1007 2700	27797	12352	\$24,848	\$253,597	\$259,153	\$247,804	\$256,885	\$269,370	\$293,004	\$317,600	\$341,989		
43	Vehiche		787'(B7	\$249,243		\$273,613	\$280,655	\$287,286	\$277,097	\$282,607	\$286,375	\$317,668	\$339,808	\$362,421		
3 5	Vehide	2		0	0		0	0	0	0	0	0	0	0		
2	S MAN		9	0	0	0	0	0	0	0	0	0	0	0	0	
3			2596,690	\$607,676	\$610,681	\$639,328	\$627,659	\$686,548	\$660,936	\$713,621	\$771,572	\$818,940	\$886,352	\$973,837	\$8,573,839	

Adjustment to AFUDC

	Description of Adjustment: reduced 2007 costs	added costs to 2007 added costs to 2006 and 2007 added costs to 2007 added costs to 2007 added costs to 2006 and 2007 added costs to 2006 and 2007 added costs to 2006 and 2007			moved costs from 2006 to 2007 moved costs from 2008 to 2007 moved some costs from 2006 to 2007 moved costs from 2009 to 2007 moved costs from 2009 to 2007					
2007	Project Costs -1,446,022	158,559 325,582 76,084 173,112 3,103,763 1,334,000 31,496	3,756,574 A	1,878,287 B 8.31670% C 156,211	AFUDC Amount 316 13,261 5,178 571 682	176,219	7,754,750	7,930,969	8,573,839	8,750,058
Project # Project Title	EngyProj1{ Temp Proj EngyProj18_ (Kaiser DG)	P0000564 W9 DCS Processor Upgrade P0000990 Waiau-Makalapa FO Replacemen P0000993 Kahe WWTF PLC Upgrade P0001081 Auahi Street 12kV OH to UG P0001120 HECO PV Ward Project P0001303 Kuilima Sub DG P9497000 Honolulu Spur		Average (A/2) AFUDC Rate Adjustment to AFUDC (B X C)	P0001267 H9 Air Heater Rotor Stop Alarm P0000543 Ward Fire Sprinkler Sys P0000622 Kahe 13 FWH Replacement P0001207 K3 Turbine Drains P0001215 W5 Turbine Drains	Adjustments	June 1 AFUDC	Revised AFUDC		
Grand		Y00053			Y00075 Y00069 Y00071					
Project Link	En_Sol	Pwr_Sup En_Del Pwr_Sup En_Del En_Sol En_Sol En_Sol			Pwr_Sup Cor_Exc Pwr_Sup Pwr_Sup					
Func_Cat Difference	Non-Steam Production	Non-Steam Production Communication Steam Production Distribution Non-Steam Production Non-Steam Production Communication			Steam Production Structural Steam Production Steam Production Steam Production					

Ref: Response to CA-IR-165, page 2 (Section 199).

The "Allocated to Generation" column of the calculations prepared by HECO include an allocation of "Customer Accounts expense" and "Customer service" expense." Please explain the inclusion of these costs in the determination of estimated pretax income for generation activity and provide complete copies of all supporting documentation or Internal Revenue Code authority relied upon for same.

HECO Response:

The general rule under §199(c)(1) (see page 3 of this response) states that qualified production activities income (QPAI) means the excess of domestic production gross receipts (DPGR) over the cost of goods sold allocable to such receipts and other expenses, losses or deductions properly allocable to such receipts. §199(c)(2) (see page 3 of this response) further provides that "The Secretary shall prescribe rules for the proper allocation of items.... Such rules shall provide for the proper allocation of items whether or not such items are directly allocable to domestic production gross receipts."

Under Regulation §1.199-4(c)(1) (see page 4 of this response), it states, "In determining its QPAI, a taxpayer must subtract from its DPGR, in addition to its CGS allocable to DPGR, the deductions that are properly allocable to DPGR. A taxpayer generally must allocate and apportion these deductions using the rules of the section 861 method." More specifically, Proposed Regulations §1.861-8T(b)(3) (see page 5 of this response) provides that deductions which are supportive in nature (such as overhead, general and administrative and supervisory expenses) may be allocated to the deductions to which they relate or an equally acceptable method would be to attribute supportive deductions on some reasonable basis directly to the activities generating QPAI. Customer Accounts expense and Customer Service expenses are

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supportive functions to production activity and these expenses are reasonably allocated to DPGR based on relative gross income.

Internal Revenue Code

§ 199 Income attributable to domestic production activities.

(c) Qualified production activities income.

For purposes of this section -

(1) In general.

The term "qualified production activities income" for any taxable year means an amount equal to the excess (if any) of—

- (A) the taxpayer's domestic production gross receipts for such taxable year, over
- (B) the sum of-
 - (i) the cost of goods sold that are allocable to such receipts, and
 - (ii) other expenses, losses, or deductions (other than the deduction allowed under this section), which are properly allocable to such receipts.

(2) Allocation method.

The Secretary shall prescribe rules for the proper allocation of items described in paragraph (1) for purposes of determining qualified production activities income. Such rules shall provide for the proper allocation of items whether or not such items are directly allocable to domestic production gross receipts.

Federal Regulations

Reg § 1.199-4. Costs allocable to domestic production gross receipts.

(c) Other deductions properly allocable to domestic production gross receipts or gross income attributable to domestic production gross receipts.

(1) In general. In determining its QPAI, a taxpayer must subtract from its DPGR, in addition to its CGS allocable to DPGR, the deductions that are properly allocable to DPGR. A taxpayer generally must allocate and apportion these deductions using the rules of the section 861 method. In lieu of the section 861 method, certain taxpayers may apportion these deductions using the simplified deduction method provided in paragraph (e) of this section. Paragraph (f) of this section provides a small business simplified overall method that may be used by a qualifying small taxpayer, as defined in that paragraph. A taxpayer using the simplified deduction method or the small business simplified overall method must use that method for all deductions. A taxpayer eligible to use the small business simplified overall method may choose at any time for any taxable year to use the small business simplified overall method, or the section 861 method for a taxable year. A taxpayer eligible to use the simplified deduction method may choose at any time for any taxable year to use the simplified deduction method may choose at any time for any taxable year to use the simplified deduction method method or the section 861 method for a taxable year.

Federal Regulations

Reg § 1.861-8T. Computation of taxable income from sources within the United States and from other sources and activities (temporary).

(b) Allocation.

(3) Supportive functions. Deductions which are supportive in nature (such as overhead, general and administrative, and supervisory expenses) may relate to other deductions which can more readily be allocated to gross income. In such instance, such supportive deductions may be allocated and apportioned along with the deductions to which they relate. On the other hand, it would be equally acceptable to attribute supportive deductions on some reasonable basis directly to activities or property which generate, have generated or could reasonably be expected to generate gross income. This would ordinarily be accomplished by allocating the supportive expenses to all gross income or to another broad class of gross income and apportioning the expenses in accordance with paragraph (c)(1) of this section. For this purpose, reasonable departmental overhead rates may be utilized. For examples of the application of the principles of this paragraph (b)(3) to expenses other than expenses attributable to stewardship activities, see Examples 19 through 21 of paragraph (q) of this section. See paragraph (e)(4)(ii) of this section for the allocation and apportionment of deductions attributable to stewardship expenses. However, supportive deductions that are described in §1.861- 14T(e)(3) shall be allocated and apportioned in accordance with the rules of §1.861-14T and shall not be allocated and apportioned by reference only to the gross income of a single member of an affiliated group of corporations as defined in §1.861-14T(d).

Ref: HECO-WP-1505, pages 6 and 9 (ADIT Adjustments for AFUDC in CWIP and TCI in CWIP).

Please explain why test year estimated federal and state deferred income tax reserve balances are reduced by amounts captioned "AFUDC in CWIP" and "TCI in CWIP" and provide complete copies of all supporting documentation or HPUC ratemaking authority relied upon for same.

HECO Response:

AFUDC in CWIP

Construction work in progress ("CWIP") is excluded from rate base and has been excluded consistently in prior rate proceedings. As discussed on pages 2 and 3 of Ms. Ohashi's testimony at T-17 in Docket No. 2006-0386, CWIP is not an included item for rate base purposes. This treatment is consistent with her presentation in Docket No. 04-0113, for which interim D&O No. 22050 was issued and with the rate base methodology used by the Commission in its D&O No. 14412 (December 11, 1995) in Docket No. 7766. Allowance for funds used during construction ("AFUDC") is accrued on CWIP balances for the cost of financing assets during construction. The Company includes the invested cost (including AFUDC) in rate base when the assets are placed into service and begins depreciation of the cost (including AFUDC) in the year following the completion of the assets.

AFUDC is ignored for tax purposes and is neither taxable income nor part of depreciable tax basis of the asset. Consequently, deferred income taxes are provided on the amount of AFUDC incurred and recognized as income for book purposes but not for tax purposes.

As previously indicated, CWIP, and the AFUDC charged thereto, is not included in rate base until the asset is placed into service. Consequently, the deferred income tax liability provided on AFUDC should not be included in rate base as long as this AFUDC is in CWIP.

This treatment is consistent with the previously cited D&Os in Docket Nos. 7766 and 04-0113.

TCI in CWIP

The income tax law also requires the cost of financing self constructed assets to be capitalized, which HECO refers to as tax capitalized interest ("TCI"). §263A of the Internal Revenue Code requires interest related to self constructed assets to be capitalized during the construction period. This interest capitalization is the source of another book/tax temporary difference and creates a negative deferred income tax. The TCI is calculated on the costs (excluding AFUDC and other non-tax basis) charged to CWIP and assumes that construction is financed entirely by debt. Consequently, the deduction for a portion of interest expense is deferred for income tax purposes and is subsequently deducted through tax depreciation.

TCI is a tax phenomenon that increases current taxes immediately as incurred (i.e., the reduced interest deduction is taken as the asset is being constructed) and decreases taxes thereafter via tax depreciation. The impact on invested capital is immediate, and therefore the related negative deferred income taxes should be an includable part of rate base as incurred.

In the Company's direct testimony (HECO-1505 and supporting workpapers HECO-WP-1505 pages 6 and 12 of 13), the negative deferred income tax liability related to TCI was incorrectly excluded from rate base. This error will be corrected in our next submission of deferred income tax liability for rate base purposes.

Regulatory Asset for AFUDC Equity Gross Up (CWIP Equity Ongoing)

In evaluating CWIP and AFUDC and their impact on deferred income taxes, HECO ascertained that the regulatory asset for CWIP Equity Ongoing (tax gross up) in HECO-1506 may be overstated to the extent that it relates to projects still in CWIP.

The tax gross up of AFUDC equity is capitalized to a regulatory asset (CWIP Equity Ongoing) pursuant to FAS 109 and is amortized over the life of the related assets. Due to the administrative burden of tracking to the related projects, HECO has applied an accounting convention assuming that this regulatory asset is placed into service equally over a four year period starting in the year the AFUDC is incurred.

Based on this convention, there is a portion of this regulatory asset that should be excluded from rate base because the related project costs are still in CWIP. The related deferred income taxes should similarly be excluded from rate base. Consequently, this adjustment will be corrected at the next opportunity. The calculation of this adjustment is shown on pages 4 and 5.

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HECO-1506 DOCKET NO. 2006-0386 PAGE 2 OF 2 (REVISED: 6/08/07)

HAWAIIAN ELECTRIC COMPANY, INC. SFAS 109 RECONCILIATION REGULATORY ASSETS AND LIABILITIES

(\$ Thousand)

		H Actual Balance 12/31/2005	I Actual 2006 Amort	J Actual 2006 Adds	K Actual Balance 12/31/2006	L Updated 2007 Amort	M Updated 2007 Adds	N Updated Balance 12/31/2007
1	CWIP Equity Transition (#18673100)	1,850	(85)		1,765	(75)		1,690
2	SFAS 109 Flow Through (#18673200)	3,264	(326)		2,938	(326)		2,612
3	Plant Transition (#18673300)	20,459	(1,023)		19,436	(1,023)		18,413
4	AFUDC Equity Gross up (#18673400)	30,280	(893)	2,585	31,972	(935)	3,239	34,276
*5	Adjustment for AFUDC Equity Gross up in CWIP	(4,171)		117	(4,054)		(309)	(4,363)
6	Federal ITC (#18673500)	(3,011)	539		(2,472)	487		(1,985)
7 8 9	Excess Deferred Taxes (#18673110 - Acct 282) (#18673900 - Acct 283) Subtotal	(1,809) (1,414) (3,223)	904 58 962		(905) (1,356) (2,261)	904 58 962		(1) (1,298) (1,299)
10 11	Deficit Deferred Taxes (#18673120 - Acct 282) (#18673190 - Acct 283)	2,216	(111)		2,105	(111)		1,994
12	Subtotal	2,216	(111)	-	2,105	(111)	±.	1,994
13	TOTAL	47,664	(937)	2,702	49,429	(1,021)	2,930	51,338
13	AVERAGE BALANCE				48,547			50,384

^{*} Line 5 represents the adjustments to exclude the AFUDC equity gross up still in CWIP.

NOTE: All SFAS 109 assets and liabilities and related taxes have been computed on effective tax rate of 32.8947368% (federal) and 6.0150376% (state).

HAWAIIAN ELECTRIC CO., INC. REGULATORY ASSET - AFUDC EQUITY GROSS UP (#18673400)

		Actual 2002	Actual 2003	Actual 2004	Actual 2005	Actual 2006	Update 2007_
ORIGINAL							
Beginning Balance		22,774	24,372	25,994	28,552	30,279	31,971
Equity Gross up addition		2,238	2,326	3,328	2,567	2,585	3,239
Amortization	_	(640)	(704)	(770)	(840)	(893)	(935)
Ending Balance		24,372	25,994	28,552	30,279	31,971	34,275
Average			25,183	27,273	29,416	31,125	33,123
REVISED							
Beginning Balance		22,774	22,694	23,131	24,334	26,108	27,917
Equity Gross up addition		2,238	2,326	3,328	2,567	2,585	3,239
Adjustment							
Add 25% of Current Year	25%	560	582	832	642	646	810
Add 25% of Prior Year 1	25%		560	582	832	642	646
Add 25% of Prior Year 2	25%			560	582	832	642
Add 25% of Prior Year 3	25%				560	582	832
Deduct Current Year	100%	(2,238)	(2,326)	(3,328)	(2,567)	(2,585)	(3,239)
Total Adjustment		(1,679)	(1,185)	(1,355)	48	117	(309)
Amortization	_	(640)	(704)	(770)	(840)	(893)	(93 <u>5)</u>
Ending Balance		22,694	23,131	24,334	26,108	27,917	29,912
Difference		1,679	2,864	4,219	4,171	4,054	4,364
Deferred Tax Effect of Reg A	sset: AFUDC	Equity Gros	s up Adjust	ment			
Federal	32.8947%	552	942	1,388	1,372	1,334	1,435
State	6.0150%	101	172	254	251	244	262
Total	_	653	1,114	1,641	1,623	1,577	1,698

NOTE: This worksheet calculates the amounts of AFUDC Equity Gross up still in CWIP, and the related deferred tax effects.

Ref: HECO-WP-1505 (Estimated 2006 and 2007 Activity and Balances).

The referenced Company workpaper sets forth estimated timing difference activity and balances for 2006 and for 2007 to determine test year average deferred tax balances for rate base inclusion. Please provide the following:

- a. Please provide updated <u>actual</u> 2006 activity and year-end deferred tax balances by sub-account within a revised spreadsheet file that replaces the projected amounts.
- b. Within the same spreadsheet responsive to part (a) of this information request, please provide updated calculations of estimated 2007 activity and revised balance projections as of December 31, 2007.
- c. Explain the model used to estimate property-related deferred tax provisions and amortizations (activity) and provide copies of workpaper calculations supporting these amounts.
- d. If not supplied in response to part (c) above, please describe and illustrate how changes to the HECO-projected plant additions and retirements for the test year can be integrated into the estimated deferred tax activity to estimate impacts upon year-end deferred tax reserves.

HECO Response:

- a. See attached pages 2-7 of this response.
- b. The 2007 update will be available in June. The Company will provide that information as soon as it is completed.
- c. HECO uses Power Tax to calculate tax depreciation. The Company will provide the workpapers in June.
- d. Any changes to test year additions and retirements do not change book depreciation.
 (Depreciable base is on beginning of the year balances.) Therefore, the Company need only look at the tax effect of the changes to tax depreciation and tax gain/loss on disposition to compute the impact on the deferred income tax liability balances at the end of the test year.

DEFER	RED INCOME TAXES		
FEDER	AL		
LIAB (I	DR)CR	Actual	Actual
		2006	12-31-06
28310	State ITC	(656,997.22)	(9,380,393.7
28311	Unearned Lease	1,190.43	(4,380.3
28312	Accrued Vacation	135,560.94	1,215,476.4
28313	Uncollectible Acct	(217,612.42)	(382,026.1
28314	Directors Def Comp	772.37	(29,927.6
28315 28317	Computer Conv Discounted Work Comp	0.00	0.0
28319	Cap to Construction	(108,501.75) 1,930,158.71	(825,842.2
28320	Gain HIRI Sub/misc	0.00	29,256,965.8 0.0
28321	Pension Pension	(4,683,108.57)	22,454,182.3
28322	Sec 189 Interest	0.00	22,434,182.
28323	Excess Benefit Plan	(11,564.14)	(469,409.6
28324	Nonop Deferred Gain	0.00	0.0
28326	Def Exec Comp	(3,502.04)	(57,424.5
28327	Software	52,895.71	(176,136.4
28328	G/L ACRS Retirements	256,505.97	6,785,408.0
28329	Series U Exp (Bonds)	(888.21)	0,785,408.0
28330	EICP EICP	(7,888.60)	(18,265.8
28331	CIAC	(545,158.21)	(14,596,984.9
28332	Customer Advances	8,448.00	(319,386.5
28333	Capitalized Interest	(695,650.87)	(15,221,843.3
28335	Connection Fees	0.00	16,019.8
28336	Nondeductible Interest	(29,473.65)	79,177.8
28337	Supplemental Benefits -SERP	(80,710.05)	(609,434.0
28338	Nondeductible Vacation	0.00	(1,084,196.3
28339	System Devel Cost	0.00	0.0
28340	LTIP	(50,949.94)	(184,356.9
28341	Waipahu Baseyard Int	0.00	(111,861.5
28342	1990 Rate Case Exp	0.00	0.0
28345	Ross Cap Legal Fees	0.00	0.0
28346	Ser V Redmp Premium	(0.00)	(0.0)
28347	Waiau Water Well Pmts	21,242.70	(388,097.3
28348	Nonutil Bad Debt	0.00	8,047.2
28349	Cap Corp Logo	0.00	0.0
28350	Loss Adj Exp	0.00	0.0
28400	92 Rate Case	0.00	0.0
28401	Genl/Auto (& Accidents)	125,888.54	(195,821.4
28402	Ser Q Redmp Premium	0.00	0.0
28403	CWIP Debt Transition	(20,889.45)	487,162.7
28404	CWIP Equity Trans	(73,137.41)	1,492,441.0
28405	Iolani Ct Plaza Sale	(80,469.77)	(155,054.5
28406	Kaonohi Sale	0.00	37,751.6
28407	FAS 109 Flow Through	(275,857.92)	2,482,745.6
28408 28409	Plant Transition CWIP Equity Net	(864,818.44)	16,431,505.0
28409 28410	CWIP Equity Net CWIP Equity Grossup	870,569.79	16,515,065.3
28410	CWIP Debt	474,817.25	10,515,259.5
28412	General/Auto Liability - Legal	369,242.24	8,177,082.6
28413	Post Retirement Ben	(12,730.56)	(45,691.0) (604,187.0)
28414	Reg Liab Federal ITC	455,906.40	(2,089,176.5)
28417	Series R &T Exp (Bonds)	0.00	0.0
28418	IRP & DSM Costs	(140,771.37)	(11,712.0
28419	Reg Liab Excess 283	18,947.35	(446,450.6)
28420	Reg Liab Deficit 283	(963.74)	0.00
28421	UFAMS Costs	0.00	0.00
28422	Miscellaneous	0.00	(28.511.60
28424	Access Costs	0.00	(28.311.00
28426	WMS Dev Costs	0.00	0.00
	Prepaid Expenses	78,269.68	643,610.56
	94 Rate Case Costs	0.00	0.00
	95 Rate Case Costs	0.00	0.00

FEDER	RED INCOME TAXES		
l'Essassa			
LIAB (E	DR)CR	Actual 2006	Actual 12-31-06
20120		(21.010.72)	017 350 13
28430	FMB X Premium	(21,918.73)	217,358.13
28431 28432	EV Demo Costs Coal Gasif Costs	0.00	0.00
28433	Def PTI Costs	0.00	0.00
28434	EEO Claims	99,341.85	(8,131.22)
28435	Differential	(72,363.12)	943,762.17
28436	TIP	254,144.45	55,836.99
28437	HACOA	0.00	0.00
28438	BONY Rev	0.00	0.00
28439	GAQS Tel	0.00	0.00
28440	Kalaeloa	15,153.83	(166,345.55
28441	Sun Power	0.00	577.09
28442	Overhaul	11,355.07	(63,636.26)
28443	EV Tax Credit	0.00	0.00
28444 28445	FMB S Premium HMSA Reserve	0.00	0.00
28500	Sec. 481(a) Adjustment	0.00	0.00
28502	Sec. 481(a) Adjustment - Depr	0.00	0.00
28504	Barbers Point	0.00	0.00
28506	Substation land - Makiki	0.00	0.00
28508	Substation land - Wilder	(209.00)	0.00
28510	Substation land - Lilipuna	(0.00)	(0.00)
28512	Revenue Bond Cost Amort	(135,414.87)	1,101,086.96
28514	APPRISE Software	0.00	0.00
28516	Honolulu Harbor Reserve	(342,870.14)	(582,615.38)
28518	D&T Fee Accrual	0.00	0.00
28520	Deferred Comp - restricted stock	49,489.94	61,847.53
28522 28524	Knapp lawsuit Software (E-business only)	6,578.47 (22,527.51)	(0.18) 0.00
28526	Emissions Fees	(11,598.34)	(325,271.73)
28528	Substation land - Kuliouou	12,980.14	(35,059.74)
28530	AES Hawaii PPA	2,879.27	(45,108.17)
28532	CIS Project Costs	(182,118.66)	(293,718.65)
28534	CT-9 reserve	0.00	0.00
28536	Substation land - Queen Emma	83,071.50	(292,989.58)
28538	Rate Case - TY 2005	(71,545.40)	150,726.88
28540	Kalaeloa PPA	(1,135.75)	(71,213.84)
28542	QUIPS amortization	(25,761.60)	543,486.78
28544	OPEB Exec Life	(248,271.76)	(2,898,754.24)
28546	Percentage Repairs Allowance	327,724.97	1,622,982.97
28548 28550	Capitalized Interest (D&T) E-Business hardware	404,916.87 20,919.11	4,254,131.87 30,564.29
28552	Fleming K-1	0.00	0.00
28554	Substation Land - Palolo	(13,773.92)	(13,773.92)
28556	Substation Land - Waianae	(34,148.47)	(34,148.47)
28558	Aiea Park Place		0.00
28560	State renewable energy credit		0.00
28562	Software - OMS		0.00
28564	Software - HR Suites		0.00
	OCI - Qualified Pension	(43,250,316.69)	(43,250,316.69)
	OCI - NQ Pension	(108,665.05)	(123,585.39)
	OCI - OPEB	(7,776,103.79)	(7,776,103.79)
	OCI - OPEB Exec Life	511,925.74	511,925.74
OTAL A	CCOUNT 283	(54,994,768.27)	22,674,844.18
CCOUN	T 282 DEPR	(2,120,299.10)	59,214,481.14
	EDERAL DEFERRED TAX	(-),-3,277.13/	27,327,1304111
	Y (before rate case adjustments)	(57,115,067.37)	81,889,325.32

FEDERA	RED INCOME TAXES		
FEDERA	AL .		
LIAB (D	DR/CR	Actual	Actual
LIMD (D		2006	12-31-06
2000 200020		2000	12 5 1 00
TOTAL	ACCOUNT 283	(54,994,768.27)	22,674,844.1
	1 0 00 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Less Rate	Case Adjustments:		
28312	Accrued Vacation	135,560.94	1,215,476.4
28313	Uncollectible Account	(217,612.42)	(382,026.1
28314	Directors Def Comp	772.37	(29,927.6
28315	Computer Conversion Costs	0.00	0.0
28317	Discounted Work Comp	(108,501.75)	(825,842.2
28320	Gain HIRI Sub/misc	0.00	0.0
28323	Excess Benefit Plan	(11,564.14)	(469,409.6
28324	Nonop Deferred Gain	0.00	0.0
28326	Def Exec Comp (Def LTIP)	(3,502.04)	(57,424.5
28330	EICP	(7,888.60)	(18,265.8
28336	Nondeductible Interest	(29,473.65)	79,177.8
28337	Supplemental Benefits -SERP	(80,710.05)	(609,434.0
28338	Nondeductible Vacation	0.00	(1,084,196.3
28340	LTIP	(50,949.94)	(184,356.9
28341	Waipahu Baseyard Int	0.00	(111,861.5
28342	1990 Rate Case Exp	0.00	0.0
28345	Ross Cap Legal Fees	0.00	0.0
28347	Waiau Water Well Pmts	21,242.70	(388,097.3
28348	Nonutil Bad Debt	0.00	8,047.2
28349	Cap Corp Logo	0.00	0.0
28350	Outage Loss Adj Exp	0.00	0.0
28400	92 Rate Case	0.00	0.0
28401	Genl/Auto (& Accidents)	125,888.54	(195,821.4
28412	Genl/Auto Legal	(12,730.56)	(45,691.0
28434	EEO Claims	99,341.85	(8,131.2
28436	TIP	254,144.45	55,836.9
28520	Deferred Comp - restricted stock	49,489.94	61,847.5
28538	Rate Case - TY 2005	(71,545.40)	150,726.8
28544	OPEB Exec Life	(248,271.76)	(2,898,754.2
28550	E-Business hardware	20,919.11	30,564.2
20330	OCI - Qualified Pension	(43,250,316.69)	(43,250,316.6
	OCI - Quantied Tension OCI - NQ Pension	(108,665.05)	(123,585.3
	OCI - OPEB	(7,776,103.79)	(7,776,103.7
	OCI - OPEB Exec Life	511,925.74	511,925.7
	AFUDC in CWIP	683,961.55	6,591,263.5
	TCI in CWIP		
	I CI III C WIF	(343,181.34)	(4,436,626.5
ED DEF	'D TAX LIABILITY - OTHER	(4,576,998.28)	76,865,850.1
	Landan and the same and the sam		
ED DEF	D TAX LIAB - ACCEL DEPR	(2,120,299.10)	59,214,481.14
OTAL F	EDERAL DEFERRED TAX		
	Y (after rate case adjustments)	(6,697,297.38)	136,080,331.2

	RED INCOME TAXES		
STATE			
LIAB (I	DR)CR	Actual	Actual
		2006	12-31-06
28310	State ITC	(112,123.00)	(1,704,959.25
28311	Unearned Lease	217.86	(722.99
28312	Accrued Vacation	24,788.18	199,252.52
28313	Uncollectible Acct	(39,791.99)	(65,217.2
28314	Directors Def Comp	141.23	(4,570.4
28315 28317	Computer Conv Discounted Work Comp	(19,840.26)	0.00
28319	Cap to Construction	350,390.02	5,355,382.7
28320	Gain HIRI Sub/misc	0.00	0.0
28321	Pension	(856,335.46)	4,105,888.0
28322	Sec 189 Interest	0.00	0.00
28323	Excess Benefit Plan	314.42	(78,878.4
28324 28326	Nonop Deferred Gain Def Exec Comp	(640.37)	0.00 (10,501.59
28327	Software	28,164.76	(33,777.54
28328	G/L ACRS Retirements	49,254.63	1,230,668.0
28329	Series U Exp (Bonds)	(162.41)	0.0
28330	EICP	(1,442.82)	(3,340.8
28331	CIAC	(96,793.08)	(2,874,504.6
28332	Customer Advances	1,544.00	(57,739.3)
28333	Capitalized Interest	(243,218.08)	(3,015,486.4
28335	Connection Fees	0.00	8,444.1
28336 28337	Nondeductible Interest Supplemental Benefits -SERP	(5,389.44)	14,478.42
28338	Nondeductible Vacation	0.00	(195,605.00
28339	System Devel Cost	0.00	0.00
28340	LTIP	(9,316.51)	(33,710.96
28341	Waipahu Baseyard Int	0.00	(20,452.91
28342	1990 Rate Case Exp	0.00	0.00
28345	Ross Cap Legal Fees	0.00	0.00
28346	Ser V Redmp Premium Waiau Water Well Pmts	0.00	0.00
28347 28348	Nonutil Bad Debt	4,285.36	(71,784.08 1,317.69
28349	Cap Corp Logo	0.00	0.00
28350	Loss Adj Exp	0.00	0.00
28400	92 Rate Case	0.00	0.00
28401	Genl/Auto (& Accidents)	23,019.11	(35,807.37
28402	Ser Q Redmp Premium	0.00	0.00
28403	CWIP Debt Transition	(3,819.77)	89,083.34
28404 28405	CWIP Equity Trans Iolani Ct Plaza Sale	(13,373.63)	272,903.93
28406	Kaonohi Sale	(11,572.04)	6,942.61
28407	FAS 109 Flow Through	(50,442.34)	453,942.41
28408	Plant Transition	(158,137.41)	3,004,646.54
28409	CWIP Equity Net	159,189.09	3,019,887.69
28410	CWIP Equity Grossup	86,823.21	1,922,783.04
28411	CWIP Debt	67,517.97	1,498,774.09
28412	General/Auto Liability - Legal	(2,328.05)	(8,355.06
28413 28414	Post Retirement Ben Reg Liab Federal ITC	(133,221.79)	(130,444.59
28417	Series R &T Exp (Bonds)	83,365.31 0.00	(382,857.57
28418	IRP & DSM Costs	(25,577.73)	(2,010.45
28419	Reg Liab Excess 283	3,464.64	(82,276.66
28420	Reg Liab Deficit 283	(568.95)	0.00
28421	UFAMS Costs	0.00	0.00
28422	Miscellaneous	0.00	611.03
28424	Access Costs	0.00	0.00
28426	WMS Dev Costs	0.00	0.00
28427 28428	Prepaid Expenses 94 Rate Case Costs	14,312.10	117,688.09
28428 28429	94 Rate Case Costs 95 Rate Case Costs	0.00	0.00
28430	FMB X Premium	(4,007.97)	39,746.62
28431	EV Demo Costs	0.00	0.00

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DEFER	IAN ELECTRIC CO., INC. RED INCOME TAXES		
STATE			
LIAB (I	DR)CR	Actual	Actual
DI. 115 (1		2006	12-31-06
28432	Coal Gasif Costs	0.00	
28433	Def PTI Costs	0.00	0.00
28434	EEO Claims	18,165.27	(1,486.88
28435	Differential	4,148.96	171,460.39
28436	TIP	50,513.89	9,950.20
28437	HACOA	0.00	0.00
28438	BONY Rev	(25.26)	(74.00
28439	GAQS Tel	(178.00)	0.00
28440	Kalaeloa Sun Power	5,541.97	9,820.76
28441 28442	Overhaul	1,649.00 2,076.35	(0.28
28443	EV Tax Credit	0.00	74.00
28444	FMB S Premium	0.00	0.00
28445	HMSA Reserve	0.00	0.00
28500	Sec. 481(a) Adjustment	0.00	0.00
28502	Sec. 481(a) Adjustment - Depr	0.00	0.00
28504	Barbers Point	(0.00)	(0.00
28506	Substation land - Makiki	0.00	0.00
28508	Substation land - Wilder	596.00	0.00
28510 28512	Substation land - Lilipuna Revenue Bond Cost Amort	(24,761.45)	0.00 201,341.13
28514	APPRISE Software	22,551.00	22,551.00
28516	Honolulu Harbor Reserve	(62,696.90)	(106,536.13
28518	D&T Fee Accrual	0.00	0.00
28520	Deferred Comp - restricted stock	9,049.54	11,309.41
28522	Knapp lawsuit	1,203.50	0.45
28524	Software (E-business only)	(5,031.81)	0.00
28526	Emissions Fees	(2,120.83)	(59,478.51
28528	Substation land - Kuliouou AES Hawaii PPA	1,445.66	(2,977.38
28530 28532	CIS Project Costs	(33,301.34)	(8,248.51 (53,708.09
28534	CT-9 reserve	0.00	0.00
28536	Substation land - Queen Emma	42,627.42	(26,138.03
28538	Rate Case - TY 2005	(13,082.52)	27,561.69
28540	Kalaeloa PPA	(207.76)	(13,021.64
28542	QUIPS amortization	(4,710.67)	99,380.63
28544	OPEB Exec Life	(45,398.03)	(530,055.41
28546	Percentage Repairs Allowance	163,694.98	400,541.98
28548	Capitalized Interest (D&T) E-Business hardware	104,706.44	828,810.44
28550 28552	Fleming K-1	5,072.14	7,348.34 0.00
28554	Substation Land - Palolo	(2,518.65)	(2,518.65
28556	Substation Land - Waianae	(6,244.26)	(6,244.26
28558	Aiea Park Place		0.00
28560	State renewable energy credit		0.00
28562	Software - OMS		0.00
28564	Software - HR Suites		0.00
	OCI - Qualified Pension	(7,908,588.77)	(7,908,588.77)
	OCI - NQ Pension OCI - OPEB	(19,870.05)	(22,598.36)
	OCI - OPEB Exec Life	(1,421,908.83)	(1,421,908.83) 93,608.80
	OCT - OT ED EXC EME	95,006.80	93,000.00
OTAL A	CCOUNT 283	(9,926,605.32)	3,973,029.21
CCOUN	T 282 DEPR	(409,111.70)	6,781,556.95
OTALS	TATE DEFERRED TAX		
	Y (before rate case adjustments)	(10,335,717.02)	10,754,586.16
OTAL A	CCOUNT 283	(9,926,605.32)	3,973,029.21
	Case Adjustments:		
cos Maic	Case Aujustinellis.	1	

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	RED INCOME TAXES		
STATE			
LIAB (I	DD V D	Actual	Actual
LIAB (I	T T	2006	12-31-06
	1,	2000	12-31-00
28312	Accrued Vacation	24,788.18	199,252.52
28313	Uncollectible Account	(39,791.99)	(65,217.27
28314	Directors Def Comp	141.23	(4,570.45
28315	Computer Conversion Costs	0.00	0.00
28317	Discounted Work Comp	(19,840.26)	(151,010.33
28320	Gain HIRI Sub/misc	0.00	0.00
28323	Excess Benefit Plan	314.42	(78,878.47
28324	Nonop Deferred Gain	0.00	0.00
28326	Def Exec Comp (Def LTIP)	(640.37)	(10,501.59
28330	EICP	(1,442.82)	(3,340.82
28336	Nondeductible Interest	(5,389.44)	14,478.42
28337	Supplemental Benefits -SERP	(11,826.39)	(101,154.85)
28338	Nondeductible Vacation	0.00	(195,605.00)
28340	LTIP	(9,316.51)	(33,710.96)
28341	Waipahu Baseyard Int	0.00	(20,452.91)
28342	1990 Rate Case Exp	0.00	0.00
28345	Ross Cap Legal Fees	0.00	0.00
28347	Waiau Water Well Pmts	4,285.36	(71,784.08)
28348	Nonutil Bad Debt	0.00	1,317.69
28349	Cap Corp Logo	0.00	0.00
28350	Outage Loss Adj Exp	0.00	0.00
28400	92 Rate Case	0.00	0.00
28401	Genl/Auto (& Accidents)	23,019.11	(35,807.37)
28412	Genl/Auto Legal	(2,328.05)	(8,355.06)
28434	EEO Claims	18,165.27	(1,486.88)
28436	TIP	50,513.89	9,950.20
28520	Deferred Comp - restricted stock	9.049.54	11,309.41
28538	Rate Case - TY 2005	(13,082.52)	27,561.69
28544	OPEB Exec Life	(45,398.03)	(530,055.41)
28550	E-Business hardware	5,072.14	7.348.34
	OCI - Qualified Pension	(7,908,588.77)	(7,908,588.77)
	OCI - NQ Pension	(19,870.05)	(22,598.36)
	OCI - OPEB	(1,421,908.83)	(1,421,908.83)
	OCI - OPEB Exec Life	93,608.80	93,608.80
	AFUDC in CWIP	125,066.61	1,205,253.43
	TCI in CWIP	(62,752.84)	(811,264.70)
TATE D	EFD TAX LIABILITY - OTHER	(718,453.00)	13,879,240.82
TATE D	EFD TAX LIAB - ACCEL DEPR	(409,111.70)	6,781,556.95
OTAL S	TATE DEFERRED TAX		
	Y (after rate case adjustments)	(1,127,564.70)	20,660,797.77

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Ref: HECO Plant, CIAC & Advances Exhibits (Updates).

Please update the following exhibits to incorporate actual 2006 values and HECO's current best

estimate for 2007, including supporting documentation:

a. HECO-1601, HECO-1602 & HECO-1603 (Plant Additions).

b. HECO-1606 (Property Held for Future Use).

c. HECO-1608 (CIAC).

d. HECO-1609 (Customer Advances).

HECO Response:

a. See revised HECO-1601, HECO-1602, HECO-1603 (Plant Additions) on pages 1, 2, and 3,

respectively, in Attachment 1 (Attachment 1, pages 1, 3 and 6 are updated to reflect revised

HECO-1601, HECO-1603, and page 6 of HECO-WP-1601, respectively). HECO-1601 and

HECO-WP-1601, page 6, are updated to reflect note "N.1" regarding excess AFUDC as

explained below. The Company is updating HECO-1603 because the previous submission

inadvertently reflected capital expenditure rather than plant addition estimates. These

revised exhibits reflect recorded 2006 amounts and the Company's most current estimate of

the 2007 test year plant additions.

The current estimate of the 2007 test year plant additions is approximately \$6.9 million

more than the estimate provided in direct testimony, mainly due to: 1) projects that were

estimated to be completed in 2006 were delayed and are now forecasted to be completed in

2007; and 2) the addition of new projects since the time of the forecast used in direct

testimony (see Attachment 5, submitted 6/8/07, for the Project Identification Forms for nine

additional projects that amount to more than \$1,000,000 in plant additions.) Pages 4

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Updated: 6/8/07

through 10 of HECO-WP-1601 (submitted as Attachment 1, pages 4 to 10) have also been revised and updated to provide detailed documentation to support the revised 2007 test year plant additions estimate. Unfortunately, \$376,642 of plant additions associated with P0001170, "CIPO AQ Monitoring Stns", which is part of the Community Givebacks Project, should have been reflected in 2008 rather than in the test year (see Attachment 1, pages 3, revised 6/7/07, and page 5, revised 5/25/07). Also, the Company has identified excess AFUDC of \$19,127 that was accrued on projects that were completed in 2006 but not recorded as plant in service until 2007 as noted in HECO-1601 and HECO-WP-1601, submitted on 6/8/07 (see Company's response to CA-IR-311 for further explanation). The Company will remove from rate base and address the test year impacts of both the P0001170 project plant additions and the excess AFUDC during settlement.

In Mr. Morikami's direct testimony (T-16), it was stated that the test year update would reflect a reduction of 2007 plant additions from \$3,500,000 to approximately \$400,000 for the HECO PV Ward project. However, the Company now anticipates that this project will not be placed into service until early 2008 so no plant additions are included in the updated 2007 test year plant additions estimate (see the Company's response to CA-IR-315 for more detail). Also, the revised test year estimate reflects a decrease of approximately \$600,000 for the substitution of the Kuilima Substation DG project with the Ewa Nui Substation DG project which was noted in Mr. Morikami's testimony.

b. See Attachment 2 for revised HECO-1606 (Property Held for Future Use). The revised HECO-1606 reflects the 2006 recorded balance. Also, as noted in Mr. Morikami's testimony, the Campbell Industrial Park properties' purchase is reflected in the updated 2007 Property Held for Future Use estimate. The cost for this purchase has also been revised to

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PAGE 3 OF 3 Updated: 6/8/07

reflect the most recent negotiations with HRPT Properties Trust.

- c. See Attachment 3, page 1, for the updated HECO-1608 (CIAC). Pages 2 through 5 of Attachment 3 (page 5 of 5 is revised as of 6/7/07 to correct a typographical error for "P0001342") reflect the updated HECO-WP-1608 that provides more detail regarding recorded 2006 amounts and the updated 2007 estimates.
- d. See Attachment 4, page 1, for revised HECO-1609 (Customer Advances). On pages 2 through 4 of Attachment 4, revised HECO-WP-1609 provides more detail regarding recorded 2006 amounts and the updated 2007 estimates.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 1 OF 10 REVISED 6/7/07

HECO-1601 DOCKET NO. 2006-0386 PAGE 1 OF 1 REVISED 6/7/07

Hawaiian Electric Company, Inc.

2006 and 2007

PLANT ADDITIONS

(\$ Thousands)

	Recorded	Updated	
	2006 Reference	2007	Reference
Projects	\$89,265 CA-IR-309 p 4	\$66,905	HECO-WP-1601, p.6
Programs	41,849 CA-IR-309 p 8	54,667	HECO-WP-1601, p10
Total	\$131,114	\$121,5 <u>72</u> N.1.	

Totals may not add due to rounding.

N.1. Will adjust 2007 plant additions in settlement for \$19,127 for AFUDC erroneously accrued on projects completed in 2006 but recorded as placed in service in 2007. See CA-IR-311 for more detailed explanation.

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HECO-1602 DOCKET NO. 2006-0386 PAGE 1 OF 1 REVISED 5/25/07

Hawaiian Electric Company, Inc.

1999 - 2006

PLANT ADDITIONS

(\$ Thousands)

Year	Recorded	Budget	\$ Difference	% Difference
1999	58,898	83,874	-24,976	-30%
2000	75,026	84,612	-9,586	-11%
2001	87,901	55,007	32,894	60%
2002	86,271	77,442	8,829	11%
2003	70,613	89,447	-18,834	-21%
2004	146,577	125,571	21,006	17%
2005	109,530	133,203	-23,673	-18%
2006	131,114	151,452	-20,338	-13%
1999-2006	765,930	800,608	-14,340	-2%

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 3 of 10 UPDATED 6/7/07

HECO-1603 DOCKET NO. 2006-0386 PAGE 1 of 1 REVISED 6/7/07

HAWAIIAN ELECTRIC COMPANY, INC.

PROJECTS OVER \$500,000 (OR \$2,500,000 EFFECTIVE JULY 1, 2004) INCLUDED IN PLANT ADDITIONS

(\$ THOUSANDS)

ESTIMATED PLANT ADDITIONS

				ESTIMITED TEAT TERMINA					
DOCKET	<u>D&O</u>						FUTURE		
<u>NO.</u>	NO.	<u>ITEM</u>	DESCRIPTION	Prior Years	<u>2006</u>	<u>2007</u>	YEARS	TO	DTAL
01-0189	18660	P0000143	Salt Lake Boulevard Widening Ph 2	1,916	2,958	1	0	\$	4,875
04-0051	21124	P0000454	K6 Fan Enclosure	772	74	0	0	\$	846
01-0135	18680	P0000474	Waialua Sugar Privatization	1,346	214	170	0	\$	1,730
01-0274	20436	P0000507	Kam Hy Resurf Waiahole-Cr Ln	2,002	0	26	0	\$	2,028
03-0220	20626	P0000832	Waiau 3 Main Transformer Replace	894	1	0	0	\$	895
04-0021	20918	P0000886	Wal-Mart Sam's Keeaumoku	1,713	0	0	0	\$	1,713
04-0104	22294	P0000939	Waiau CT Separation	0	929	28	0	\$	957
05-0146		Y00064	Community Givebacks N.1.	0	0	377	8,026	\$	8,403
02-0207	19775	P9454000	K4 Boiler Controls Upgrade	0	4,561	94	0	\$	4,655
02-0206	19774	P9539000	K3 Boiler Control Upgrade	0	0	4,166	63	\$	4,229
01-0228	21918	Y00017	Waikiki Rehab Project 1	0	632	16	0	\$	648
03-0260	21003	Y00021	New Kuahua Substation	8,162	1,919	3	0	\$	10,084
00-0040	18292	Y00023	Ward Air Conditioning Replace	7,676	325	231	0	\$	8,232
02-0142	19915	Y00027	Mokuone Substation	6,237	626	0	0	\$	6,863
03-0124	20407	Y00029	Telecommunications System	4,617	26	0	0	\$	4,643
03-0360	21224	Y00030	New Dispatch Center	1,190	24,340	1,903	262	\$	27,695
01-0444	19875	Y00032	Waiau Fuel Oil Pipeline	40,571	41	0	0	\$	40,612
04-0350	21993	Y00039	Mamala Substation	0	0	6,207	3	\$	6,210
04-0278	21692	Y00040	Ford Island Substation	540	23,943	40	0	\$	24,523
05-0217	22201	Y00045	Ocean Pointe Substation	0	3,550	21	0	\$	3,571
02-0413	20089	Y00047	Puuloa Road Widening	1,372	0	351	93	\$	1,816

N.1 The plant addition for this project should have been reflected in 2008. No plant additions are expected to be recorded in the test year.

HECO-WP-1601 DOCKET NO. 2006-0386 PAGE 4 OF 10 REVISED 5/25/07

Hawaiian Electric Company, Inc.

2007 PLANT ADDITIONS - PROJECTS

					E	xpenditure	es			
			Project							
		Projected Completion	to Date							
Project #	Project Title	Completion Date	Recorded 12/31/05	2006	2007	2008	2009	2010	2011	Total
ADegracio01	A STATE OF THE STA	2007/10	0	0	289,886	0	0	0	0	289,886
EngyProj20	Mobile Standby Generator	2007/12	0	0	121,042	3,074	0	0	o	124,116
HHamada06_	Spare 138kV 63KA Bkr	2007/11	0	0	123,158	0	0	0	0	123,158
P0000056	H8 Blr Elec Warm Sys	2007/10	677,590	64,109	35,348	0	0	0	0	777,047
P0000062	Ce-Terminating Trust Esmnts	2007/12	497,682	93,621	86,377	32,000	0	0	0	709,680
P0000063	Conv Halawa School 138kv	2007/01	33,200	5,055	40.554	0	0	0	0	38,255
P0000091 P0000210	H9 Attemperator Block Valve	2007/06 2007/11	39,758 66,462	8,141 0	19,551 250,797	0 1,373	0	0	0	67,450 318,632
P0000210	W5 Cycle Chem Instr. Intl Savings & Loan Vault	2007/10	91,980	0	315,425	1,575	0	0	0	407,405
P0000462	W7 Waiau 7 ERV Replace	2007/03	0 1,000	774	97,731	295	0	ō	o	98,800
P0000465	K1&2 Service Air Compressors	2007/07	0	49,167	257,771	0	0	0	0	306,938
P0000474	WSC Privatization	2007/11	1,345,801	213,554	170,074	0	0	0	1	1,729,430
P0000490	H8&9 Emergency Generator	2007/08	7,861	11,444	186,212	0	0	0	0	205,517
P0000542	Ward Disaster Generator	2007/12	0	0	781,317	0	0	0	0	781,317
P0000564	W9 DCS Processor Upgrade	2007/06	188,507	33,784	214,925	0	0	0	0	437,216
P0000610	K1 Blr Access Door Addition	2007/02	0	82,777	62,176	0	0	0	0	144,953
P0000622 P0000634	K1 Kahe 13 FWH Replace	2007/09 2007/08	0 113,023	152,668 8,378	503,686 118,801	0	0	0	0	656,354 240,202
P0000634	W7&8 Boiler Wash Sump Pump W0 Waiau Chlorine Dioxide	2007/08	113,023	66,433	336,797	2,796	0	0	0	406,026
P0000637	K0 Kahe Chlorine Dioxide	2007/06	0	53,611	386,444	3.048	0	0	0	443.103
P0000640	H0 Honolulu Demin Upgrade	2007/05	0	760,768	956,260	0,010	0	ō	Ö	1,717,028
P0000644	K1 Kahe FWH 14 Replace	2007/09	0	271,925	372,697	0	0	0	0	644,622
P0000700	Fire sprinkler-whse hi-stora	2007/08	0	0	116,558	0	0	0	0	116,558
P0000714	Materials Storage Relocation	2007/04	123,418	846	8,040	0	0	0	0	132,304
P0000786	K1 Kahe 1 BW Sump Upgrade	2007/07	158,219	29,880	9,284	0	0	0	0	197,383
P0000788	K2 Kahe 2 BW Sump Upgrade	2007/07	98,659	56,562	24,300	0	0	0	0	179,521
P0000789	K3 Kahe 3 BW Sump Upgrade	2007/06	176,157	-39,081	26,622	0	0	0	10	163,708 Pa
P0000790	K4 Kahe 4 BW Sump Upgrade	2007/05	121,381	56,300	9,084	0	0	0	0	186,765
P0000791 P0000792	K5 Kahe 5 BW Sump Upgrade K6 Kahe 6 BW Sump Upgrade	2007/07 2007/07	127,415 96,889	34,689 63,643	23,793 23,021	0	0	0	0	185,897 183,553
P0000792	Field Service/Meter Reading	2007/12	0	19,809	665,313	115,967	0	0	0	801,089
P0000795	Parking-C&M,SysOp,&Employee	2007/12	0	11,080	501,788	145,765	0	Ö	Ö	658,633
P0000797	W3-W4 Svc Air Compr	2007/12	0	0	274,376	0	0	0	0	274,376
P0000798	W6 Instr Air Compr	2007/12	10,625	1,755	175,110	9,540	0	0	0	197,030
P0000800	K1 Operator Console Upgrade	2007/03	0	262,644	145,545	0	0	0	0	408,189
P0000808	K3 Annunciator Replacement	2007/09	0	416,099	386,190	8,058	0	0	0	810,347
P0000813	K3&4 Control Room AC	2007/07	0	11,687	349,721	3,453	0	0	0	364,861
P0000815	H9 Volt Reg/Exciter Replace	2007/04	0	652,368	670,686	0	0	0	0	1,323,054
P0000816 P0000826	W5 Exciter/Regulator Replace ITS Renovation	2007/11 2007/11	0	0	892,900 166,445	309,859 0	0	0	0	1,202,759 166,445
P0000827	K3 DCS Balance of Plant I/O	2007/09	0	0	70,594	1,704	0	0	0	72,298
P0000828	Outage Management System	2007/07	8,055	488,153	55,626	0	0	ō	0	551,834
P0000833	Mamala Substation	2007/09	505,754	126,643	1,657,600	2,611	0	1	0	2,292,609
P0000834	46kV Fdrs to Mamala Sub	2007/09	134,185	12,779	3,376,925	0	0	1	0	3,523,890
P0000835	Comm Links Mamala Sub	2007/09	103,543	24,428	264,916	0	0	0	0	392,887
P0000857	W7 Aux Transformer	2007/05	0	5,575	276,973	0	0	0	0	282,548
P0000862	W7 Cond. Refurbishment	2007/06	28,243	802,632	768,285	0	0	0	0	1,599,160
P0000870	H9 Generator Rotor Rewind	2007/04	17,971	1,103,251	454,373	0	0	0	0	1,575,595
P0000943 P0000957	H0 Honolulu Boiler Wash sump K1 MS Replacement	2007/04 2007/03	0 4,093	139,863 1,031,476	238,516 545,886	0	0	0	0	378,379 1,581,455
P0000959	H9 SSH Element Replacement	2007/04	4,093	1,004,859	380,656	0	0	0	0	1,385,515
P0000983	W5 Waiau 5/6 Elevator Upgrd	2007/04	7,487	189,222	68,275	0	0	0	o	264,984
P0000990	Waiau-Makalapa FO Replacemen	2007/09	18,741	151,467	453,808	0	0	0	ō	624,016
P0000993	K0 Kahe WWTF PLC Upgrade	2007/12	879	62	14,580	0	0	0	0	15,521
P0000997	TWO-Way radio upgrade	2007/08	55,202	16,836	6,015	0	0	0	0	78,053
P0001003	Ward Ave Turnstile Gate	2007/01	0	36,001	8	0	0	0	0	36,009
P0001005	King St CCTV Cameras	2007/12	0	0	135,714	0	0	0	0	135,714
P0001009	K1 Battery Bank Replacement	2007/03	0	43,918	18,800	0	0	0	0	62,718
P0001010	HR/Benefits/Comp Suite	2007/05	123.060	24.009	312309	03.460	0	0	0	312,309
P0001037	Puuloa Rd Widening - UG Palehua East B 46kV UG PH2	2007/12 2007/06	123,969 0	24,008 6,966	202,725	93,469 0	0	0	1 0	444,172 324,239
P0001046 P0001047	HECO Vault 15 Relocate	2007/06	267,835	524,228	317,273 266,203	0	0	0	0	1,058,266
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Hawaiian Electric Company, Inc.

2007 PLANT ADDITIONS - PROJECTS

					E	xpenditur	es			
		Projected	Project to Date							
		Completion	Recorded							
Project #	Project Title	<u>Date</u>	12/31/05	2006	2007	2008	2009	2010	2011	<u>Total</u>
P0001072	Kakaako ID 12	2007/03	73,943	399,876	1,014,102	7,916	0	0	0	1,495,837
P0001076	Kam Hy-Kokololio Bridge Perm	2007/08	0	3,105 61,823	129,876	0	0	0	0	132,981
P0001094 P0001095	EAI Phase 2-Reliability EAI Phase 3 -QA	2007/05 2007/05	0	33,427	0	0	0	0	0	61,823 33,427
P0001095	Waiau Chem Lab	2007/03	0	035,427	382,059	0	0	0	0	382,059
P0001117	Ward A/C Sys Op & Bsment	2007/09	ő	0	188,849	ō	0	ō	Ö	188,849
P0001130	K3 Kahe 32 TVL Screen	2007/05	o	245,876	6,709	0	0	0	0	252,585
P0001133	W8 Waiau FWH 83 Replace	2007/05	0	108,165	342,014	0	0	0	0	450,179
P0001149	H9 Honolulu 9 O2 Analyzer	2007/04	0	71,203	33,123	0	0	0	0	104,326
P0001152	W0 Waiau Shft Supervisor Off	2007/08	119,445	121,771	62,710	0	1	0	0	303,927
P0001155	150 Feet Aerial Platform Trk	2007/06	0	0	1,008,829	0	0	0	0	1,008,829
P0001157	Honouliuli Reservoir 12kV Line	2007/07	41	10,541	48,566	0	0	0	0	59,148
P0001161	W0 Waiau Solar FS Upgrade	2007/06	0	9,479	51,733	0	0	0	0	61,212
P0001170 P0001175	CIP0 AQ Monitoring Stns K1 BFP Automated Test	2007/12 2007/02	0	9,078 23,942	367,564 128,389	313,956	0	0	0	690,598 152,331
P0001175	K4 BFP Automated Test	2007/02	0	33,854	897	0	0	0	0	34,751
P0001178	W4 BFP Automated Test	2007/05	ō	55,458	1,513	0	0	0	0	56,971
P0001179	K1 Gen Protective Relay	2007/03	ō	21,484	13,616	0	0	0	0	35,100
P0001181	K3 Gen Protective Relay	2007/09	0	0	62,236	3,260	0	0	0	65,496
P0001186	W4 Gen Protective Relay	2007/01	0	26,723	6	0	0	0	0	26,729
P0001193	K1 Hydrogen Gas Dryer	2007/03	0	94,622	42,550	0	0	0	0	137,172
P0001195	K3 Hydrogen Gas Dryer	2007/09	0	62,355	106,451	0	0	0	0	168,806
P0001203	W7 Hydrogen Gas Dryer	2007/06	0	2,122	86,529	0	0	0	0	88,651
P0001205	K1 Turbine Drains	2007/02	0	89,210	129,620	0	0	0	0	218,830
P0001221	K1 FWH 13 Press/Temp Instr	2007/02	0	30,219	6,897	0	0	0	0	37,116
P0001222 P0001225	K1 FWH 15 Press/Temp Instr K3 FWH 31 Press/Temp Instr	2007/02 2007/09	0	30,022	7,331 49,596	422	0	0	0	37,353 50,018
P0001225	K3 FWH 32 Press/Temp Instr	2007/09	0	0	51,319	288	0	0	0	51,607
P0001227	K3 FWH 33 Press/Temp Instr	2007/09	ő	0	50,887	354	0	ō	Ö	51,241
P0001228	K3 FWH 35 Press/Temp Instr	2007/09	Ō	0	54,120	288	0	0	Ō	54,408
P0001243	K1 Process Parameter Monitor	2007/02	0	63,745	217,463	0	0	0	0	281,208
P0001244	K3 Process Parameter Monitor	2007/09	0	0	25,390	400	0	0	0	25,790
P0001245	K4 Process Parameter Monitor	2007/05	0	73,462	8,512	0	0	0	0	81,974
P0001249	W4 Process Parameter Monitor	2007/05	0	207,771	7,155	0	0	0	0	214,926
P0001250	W7 Process Parameter Monitor	2007/06	0	2,423	304,175	0	0	0	0	306,598
P0001257	K0 Kahe Tank #11 Lvl Gauge	2007/12	0	0	38,793	0	0	0	0	38,793
P0001258 P0001260	K0 Kahe Tank #12 Lvl Gauge	2007/12 2007/12	0	0	38,793 32,617	0	0	0	0	38,793 32,617
P0001260 P0001261	K0 Kahe Tank #14 Lvl Gauge K3 Air Htr Rotor Stop Alarm	2007/12	0	7,136	52,617	0	0	0	0	7,190
P0001265	W7 Air Htr Rotor Stop Alarm	2007/06	ō	13,095	21,439	0	0	ō	ō	34,534
P0001267	H9 Air Htr Rotor Stop Alarm	2007/04	0	25,456	9,074	0	0	0	0	34,530
P0001268	Capitol Place - Relo. V920	2007/09	0	35,922	159,059	0	0	0	0	194,981
P0001281	A/C Upgrade at Data Center	2007/01	0	368,071	80	0	0	0	0	368,151
P0001284	W8 Waiau FWH 84 Replace	2007/05	0	370,269	329,356	0	0	0	0	699,625
P0001285	W6 Waiau FWH 64 Replace	2007/07	0	157,860	13,464	0	0	0	0	171,324
P0001294	Ward 1/2 Safety Access Impvm	2007/08	0	0	80,908	0	0	0	0	80,908
P0001299	W5 Heater Drip Pump Replace	2007/04 2007/05	0	161,419 692,077	42,073 1,736,942	0	0	0	0	203,492 2,429,019
P0001303 P0001306	Ewa Nui DG 4-5-6 Mililani Mauka Offsite Ph 16	2007/03	0	80,446	322,095	0	0	0	0	402,541
P0001300	K0 Kahe Rolloff Area	2007/03	0	37,741	253,884	1	0	o	0	291,626
P0001309	Net Energy Metering	2007/05	Ō	0	11,231	18,008	124-126-1-126-1-1-1-1-1	23,242		90,110
P0001312	Princess Thrt Trayer SW Repl	2007/04	0	1,260	5,359	0	0	0	0	6,619
P0001313	HECO V114 Trayer SW Repl	2007/02	0	21,920	314	0	0	0	0	22,234
P0001314	St Lib V6422 Trayer Sw Repl	2007/06	0	2,731	11,179	0	0	0	0	13,910
P0001315	Kal Hwy V7327 Trayer Sw Repl	2007/07	0	990	11,525	0	0	0	0	12,515
P0001316	Inn Prk V4322 Trayer Sw Repl	2007/08	0	4,384	11,988	0	0	0	0	16,372
P0001317	Ala Wai V4732 Trayer Sw Repl	2007/03	0	3,125	16,400	0	0	0	0	19,525
P0001318	Honvest V6193 Trayer Sw Repl	2007/08	0	2,181	11,772	0	0	0	0	13,953
P0001321 P0001323	K1 Kahe 11&12 ACW Heat Exch	2007/04 2007/01	0	451,168 178,423	487,094 39	0	0	0	0	938,262 178,462
P0001323	King Gutter System W5 UPS Panel Upgrade	2007/01	0	0	50,133	1,077	0	0	0	51,210
P0001327	Spare 8% Tsf 2006 #1	2007/01	0	81	523,970	0	0	0	ō	524,051
	4				8					

Hawaiian Electric Company, Inc.

HECO-WP-1601 DOCKET NO. 2006-0386 PAGE 6 OF 10 REVISED 6/7/07

2007 PLANT ADDITIONS - PROJECTS

							2020			
			Droinet			Expenditur	es			
		Projected	Project to Date							
		Completion	Recorded							
Project #	Project Title	Date	12/31/05	2006	2007	2008	2009	2010	2011	Tota
P0001338	Spare 8% Tsf 2006 #2	2007/04	0	<u>2000</u> 81	520,794	0	0	0	0	520,875
P0001338	Halawa Quarry Tsf Repl	2007/04	0	220,767	73,338	ō	0	0	Ö	294,105
P0001339	Ellipse Migration to Unix	2007/08	0	220,767	407,588	143,437	0	0	o	551,025
P0001341	Walmart Manana OH Relocation	2007/12	0	15,586	143,325	0	0	o	0	158,911
P0001342	Baseyards Priority 2 - 2007	2007/12	0	15,560	49,431	0	0	0	0	49,431
P0001352	MEVA Priority 1 - 2007	2007/12	0	0	39,318	0	0	o	o	39,318
P0001356	Mamala Phase 2 - Mamala	2007/12	0	0	1,008,347	1	0	0	0	1,008,348
P0001357	Kapolei Pkwy Ext. OH to UG	2007/10	0	18,957	138,173	0	0	0	0	157,130
P0001360	Cooke Street Turnstile Gate	2007/01	0	53,357	130,173	0	0	o	0	53,369
P0001363	FM200 System	2007/01	0	00,007	162,572	0	0	0	0	162,572
P0001364	Ewa Nui & Kamokila Ckt Rearr	2007/09	Ö	24,210	1,685,285	0	0	0	0	1,709,495
P0001365	Security Trailer Relocation	2007/03	0	37,059	1,000,200	0	0	0	0	37,067
P0001303	Behavior Analysis Mgmt	2007/07	0	283,061	7,724	0	0	0	0	290,78
P0001374	Memory Modules	2007/07	0	13,801	377	0	0	0	0	14,178
P0001375	IDN Cameras	2007/05	0	6,520	178	0	0	0	0	6,69
P0001370	Behavior Analysis Mgmt 2	2007/03	0	86,087	2,349	0	0	0	0	88,430
P0001377	Memory Modules 2	2007/07	0	920	2,545	0	0	0	0	94
P0001378	IDN Cameras 2	2007/05	0	15,213	415	0	0	0	0	15,62
P0001373	Kuilima Sub Access Road	2007/03	0	51,876	133,686	0	0	0	0	185,56
P0001385	Fort St Mall-Campbell Ducts	2007/11	0	3,047	229,405	0	0	0	0	232,45
P0001394	AMI - Ocean Point	2007/05	0	0,047	376,458	20,051	0	0	0	396,50
P0001395	Second Spare 15kV Switchgear	2007/10	ō	0	207,633	0	0	0	0	207.63
P0001396	UH Quarry Tsf Replacement	2007/04	o	0	517,768	0	0	0	0	517,76
P0001398	Mamala Phase 3	2007/04	ő	0	240,801	0	0	0	0	240,80
P0001401	Spare 10% Tsf 2007 #1	2007/11	ő	0	471,680	0	0	0	0	471,68
P0001401	Ward Roof Top Parking Impv	2007/11	ő	0	219,428	0	0	o	Ö	219,42
P0001405	Enterprise Reporting System	2007/04	ő	0	241,709	Ō	Ö	ō	Ö	241,70
P0001406	CEIP46 Recond (near FW)	2007/10	ő	0	329,220	0	0	ō	Ö	329,22
P0001411	Waiau 138KV Bkr 111 Replace	2007/05	Ö	0	192,139	0	Ö	o	Ö	192,13
P0001412	Kahe 138KV Bkr 169 Replace	2007/08	Ö	0	241,469	ō	0	ō	Ö	241,46
P0001415	Archer Breaker 6050 Repl	2007/08	ō	0	333,733	0	0	ō	Ō	333,73
P0001421	School St #1 Swgr Repl	2007/11	ō	0	524,756	30,322	Ö	ō	0	555,07
P0001429	Lagoon #1 Tsf Replacement	2007/11	Ö	0	625,073	00,022	Ö	ō	o	625,07
P9262000	Malae-Koolau MW Replace	2007/12	0	0	636,443	0	0	0	0	636,44
P9497000	Honolulu Spur	2007/08	106,554	2,950	30,324	0	ō	Ō	o	139,82
P9539000	K3 Boiler Control Upgrade	2007/09	460,365	291,101	3,414,330	63,414	1	o	o	4,229,21
SUyehara03_	Manana Swgr Installation	2007/09	0	0	154,332	0	o	0	0	154,33
			6,017,485	14,812,400	42,611,378	1,336,207	20,583	23,244	17,060	64,838,35
					From 2005 a	and 2006 (pa	age 8)			3,463,74
					2008 Plant A	Additions				-1,336,20
					2009 Plant A	Additions				-20,58
					2010 Plant A	Additions				-23,244
					2011 Plant A	Additions				-17,060

To HECO-1601

\$66,905,012 N.1.

N.1. Will adjust 2007 plant additions in settlement for \$19,127 for AFUDC erroneously accrued on projects completed in 2006 but recorded as placed in service in 2007. See CA-IR-311 for more detailed explanation.

Total Projects

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Hawaiian Electric Company, Inc.

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2007 PLANT ADDITIONS

Straggling Costs for Projects with 2005 and 2006 Plant Addition Dates

		Expenditures
	Project Title	<u>2007</u>
	K5 Boiler Controls Upgrade	211
	Salt Lake Blvd Widening Ph2	804
	Waikiki Rehab Project 1	15,980
	W4 Cycle Chem Instr.	3,935
	Makalapa Substation Prot	2,567
	W9 Compressor Wash	1,539
	W10 Compressor Wash	853
OF SALESSES WHEELS	K6 Fan Enclosure	195
	W3 Waiau FWH 35 Replace Ward A/C Imprv Phase II	4,431
	Kam Hy Resurf Waiahole-Cr Ln	41,611 26,303
	PM-Makalapa MW Replace	1,024
	PM-Ewa Nui MW Replace	1,171
	Ka lwi 12kV UG, Ph 1 Inc 2	129,234
	Mokuone 46-12KV Line Ext	201
	CIS Replacement	313,281
	Kahekili Hy Ltg OH/UG Conv	13,200
	Kaneohe Bay Dr Improvements	94,153
	K2 Kahe FWH 24 Replace	812
	K2 Kahe FWH 23 Replace	221
	W10 Exhaust Duct Replacement	15,606
P0000659	K2 Kahe FWH 25 Replacement	812
P0000664	W3 UPS Installation	1,303
	W6 Annunciator Upgrade	130
	W5 Annunciator Upgrade	30,960
	Dispatch Center Building	37,009
	Dispatch Boards	1,559
	Telecomm Extensions	103,350
	EMS Replacement	84,503
	Dispatch Training Simulator	37,119
	H-1 Widening Waimalu Reloc Call Center-1st floor	98,466
	W4 Operator Console Upgrade	308,964 2,502
	W3 Operator Console Upgrade	1,668
	W6 Operator Console Upgrade	1,303
	W4 Main Xfmr Replacement	1,952
	Ford Island Substation	9,704
P0000837	Makalapa 46kV Brkr Addition	1,956
	46kV Fdrs to FI Sub	5,665
P0000839	Comm. Links Fl-Maklpa	22,514
	K2 Annunciator Replacement	54
P0000917	Village Park - DB Cable Rpl	15,621
	W9 Waiau CT Separation	27,795
	Ocean Point SS Land Purchase	815
P0000950	Ocean Point SS Tsf#1 Install	19,069

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HECO-WP-1601 DOCKET NO. 2006-0386 PAGE 8 OF 10 REVISED 5/25/07

Hawaiian Electric Company, Inc.

2007 PLANT ADDITIONS

Straggling Costs for Projects with 2005 and 2006 Plant Addition Dates

		Expenditures
Project #	Project Title	2007
P0000951	Ocean Pointe 46kV Lines	826
P0000962	W7 #71 TVL Screen Repl	1,734
P0001015	Wahiawa-Waialua #2 P23X-P33	41,404
P0001016	Lurline/Mariposa Cable Repl	38,600
P0001045	Palehua East B 46kV UG PH1	-99,726
P0001049	Mokapu 3 TSF Installation	10,584
P0001075	Kam Hy-Kokololio Bridge Temp	2,300
P0001077	Manoa Sub 4 kV Upgrade	9,785
P0001079	W8 Aux Xfmr Replacement	2,541
P0001087	Replace CEIP Multimode Fiber	13,006
P0001144	Helemano - Substation DG	5,613
P0001145	Ewa Nui - Substation DG	3,037
P0001146	lwilei Tank Farm DG	8,967
P0001156	Alakawa St 11.5kV UG Reloc	1,421
P0001158	Waiau-Koolau #1 Line Repl	12,694
P0001164	W8 HP/IP Blade Replacement	9,137
P0001165	Enterprise Reporting (BI)	557,000
P0001166	Shared UNIX Infrastructure	499,573
P0001298	W6 Heater Drip Pump Replace	36,577
P0001301	Kalaeloa Pole Yard DG	116,722
P0001302	CEIP-Substation DG	53,111
P0001311	Spare 15kV Switchgear 2006 #2	16,597
P0001319	Mamala Phase 2-Hickam	7,395
P0001336	Camp Catlin Tsf Upgrade	1,551
P0001386	W4 Turbine Supervisory Instr	11,528
P8290000	Tripler Wahiawa mwr replace	339,805
P8470000	Koolau/Tripler MWR Repl	162,738
P8820000	W4 Exciter Upgrade	3,016
P9454000	K4 Boiler Control Upgrade	93,932
P9511000	Generation Hotline Upgrd	19,290
P9541000	K4 Data Acq and Monitor	866
		\$3,463,749

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HECO-WP-1601
Hawaiian Electric Company, Inc.

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PLANT ADDITIONS - PROGRAMS

REVISED 5/25/07

Project #	Project Title	2007
P0000089	Pwr Quality Monitor Install	26,351
P0000120	Corr (Inc Emg) OH Trsf Rpl	426,842
P0000121	Corr (Inc Emg) UG Trsf Rpl	460,717
P0000121	Cor (Inc Emg) Mis Cable Rpl	5,237,332
P0000123	Corr (Inc Emg) OH Dist Rpl	2,046,838
P0000124	Cor (Inc Emg) OH Subtrn Rpl	363,455
P0000445	Trayer Sub Sw Repl Prog	1,572
P0000498	HECO Employee Cafeteria	7,228
P0000500	Misc Office Furniture	141,311
P0000501	Misc Office Equipment	65,299
P0000502	Waiau Minor Gen Addns	163,576
P0000503	Ward Ave Minor Addns	154,694
P0000504	King St Minor Addns	125,974
P0000505	Other Minor Gen Plt Addns	77,368
P0000510	PROG Circ Wtr Temp Monitors	4,762
P0000590	PROG PP Security Hdwr Upgrd	-308
P0000652	Misc Enterprise Hardware	28,145
P0000653	Collaborative Communications	53,963
P0000692	CSD Technical Support Prgrm	21,000
P0000733	Trns Sub RTU Migration Pgm	118,700
P1081000	Capitalized Tools & Equip	877,547
P1243000	PCs, Servers & Network	1,037,461
P1244000	Copiers/Faxes/Printers	197,068
P1250000	Vehicle Purchases	2,911,478
P1251000	Misc Tel Eqpt NT	20,186
P1370000	Distr R/W Purch (Blanket)	71,900
P1373000	46kv R/W Purch (blanket)	34,850
P1429000	PROG Misc Power Plant Adds	2,215,543
P1470000	Minor Trans Sub Addns	1,037,238
P1480000	Minor Dist Sub Addns	1,251,466
P1500000	Misc CM Fac-Op & Ctrl (TD)	495,704
P1505000	Other Misc Comm Fac SOD	206,622
P1510000	Misc OH Svc & Extn (CID)	1,583,786
P1580000	Minor OH Dist Addn (CID)	1,946,953
P1670000 P1680000	P&I&Test Meters & Mtr Eq Tsf & Equip Pur (CID)	1,347,780 6,003,342
P1690000	Minor T&D Customer Programs	325,068
P1700000	Misc UG Svc & Extn (CID)	12,313,921
P1789000	Preventive OH Transf Repl	187,461
P1793000	Preventive UG Transf Repl	274,328
P1810000	Prev Misc Cable Failure Rpl	2,159,751
P1820000	Minor UG Addns (CID)	1,836,364
1 1020000	MILIOI OO Addiis (OID)	1,000,004

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HECO-WP-1601
Hawaiian Electric Company, Inc.

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PLANT ADDITIONS - PROGRAMS REVISED 5/25/07

Project #	Project Title	2007
P1870000	PROG Power Station Misc	226,641
P1990000	Minor T&D System Programs	1,541,799
P3400000	Prev OH Dist Repl	2,239,079
P3401000	Prev OH Subtrans Repl	1,915,230
P3402000	Prev OH Trans Repl	785,072
P4150000	Monitoring Services	27,573
P9028000	Mobile Radio F1/F2 Replace	71,317

\$54,667,347

To HECO-1601

CA-IR-307 ATTACHMENT 2 DOCKET NO. 2006-0386 Page 1 of 2

Hawaiian Electric Company, Inc.

2007

PROPERTY HELD FOR FUTURE USE

(\$ Thousands)

Recorded balance - 12/31/06	\$517
Purchase land for Campbell Industrial Park Generating Station	3,050
Estimated balance - 12/31/07	\$3,567

Hawaiian Electric Company, Inc.

2007

PROPERTY HELD FOR FUTURE USE

(\$ Thousands)

Name of Site	Size	Tax Map Key	Year Acquired	Proposed Service Date	Purchase Price
Kalaeloa- Barbers Point Harbor Pipeline			1991		\$517
Campbell Industrial Park Generating Station	2.045 acres	9-1-26:39	2007 (N.1.)	July 2009	\$1,257
Campbell Industrial Park Generating Station	1.76 acres	9-1-26:38	2007 (N.1.)	Post 2009	\$1,793

N.1. Most current estimate (as of May 25, 2007), based on the purchase negotiations that are still underway.

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HECO-1608 DOCKET NO. 2006-0386 Page 1 of 1 REVISED 5/25/07

Hawaiian Electric Company, Inc.

2006 and 2007

CONTRIBUTIONS IN AID OF CONSTRUCTION

(\$ Thousands)

	Actual 2006		Updated 2007		Reference		
Contributions in aid of construction: In-Kind	_\$	1,468	\$	6,467	HECO-WP-1608		
Cash CIAC:							
Customer Installations	\$	3,835	- 5	4,255	HECO-WP-1608		
Energy Delivery	_	6,950	-	7,585	HECO-WP-1608		
Total		10,785	\$ 1	1,840	HECO-WP-1608		
Customer Advances:							
Receipts	\$	64	\$	115			
Refunds		(539)		(96)			
Transfers		(23)		(264)			

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 3 PAGE 2 OF 5

HECO-WP-1608 DOCKET NO. 2006-0386 PAGE 1 OF 4 REVISED 5/25/07

Hawaiian Electric Company, Inc. Contributions in Aid of Construction

	Actual 2006	Updated 2007	Reference
Cash CIAC: Customer Installations Energy Delivery	\$ 3,834,699 6,950,000 \$ 10,784,699	\$ 4,254,800 7,585,000 \$ 11,839,800	HECO-WP-1608, p2 HECO-WP-1608, p3
In-Kind CIAC	\$ 1,468,282	\$ 6,467,047	HECO-WP-1608, p4

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HECO-WP-1608 DOCKET NO. 2006-0386 PAGE 2 OF 4 REVISED 5/25/07

Hawaiian Electric Company, Inc. CASH CONTRIBUTIONS-IN-AID-OF-CONSTRUCTION Customer Installations

PROJ#	DESCRIPTION		2006 Actual	2007 Update
P1510	Minor OH	\$	167,237	\$ 48,500
P1580	Misc OH Addn	\$	108,195	\$ 245,500
P1700 & Misc	Minor UG	\$	3,369,793	\$ 3,670,500
P1820	Misc UG Addn	\$	189,474	\$ 290,300
	TTL CASH CIAC	\$	3,834,699	\$ 4,254,800

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HECO-WP-1608 DOCKET NO. 2006-0386 PAGE 3 OF 4 REVISED 5/25/07

CONTRIBUTIONS IN AID OF CONSTRUCTION ENERGY DELIVERY - CASH CIAC (\$ thousands)

		2006	2007
Project No.	Project Description	Actual	Update
P0000836	Ford Island Substation	4,832	
P0000143	Salt Lake Blvd Widening, Ph. 2	504	1,100
P0000507	Kam Hwy Resurf, Waiahole to Crchng Lion		1,330
P0000530	Ka Iwi Scenic Shoreline Impvmt, Ph 1, Incr 2		122
P0000598	Kahekili Hwy Lighting Impvts		51
P0000575	Nimitz Hwy Rehab		71
P0000833	Mamala Substation	256	2,215
P0000886	Walmart/Sam's Keeaumoku	(39)	
P0000947	Ko'Olina Subst 46kV Lines	375	20073
P0000951	Ocean Pointe 46kV Lines	100	
P0001072	Kakaako ID-12		475
P0001075	Kam Hwy Kokololio Bridge Temp		231
P0001268	Capitol Place - Relocate Vault 920	33	131
P0001306	Mililani Mauka Offsite Ph. 16	279	
P0001319	Mamala Phase 2 - Hickam	250	
P0001342	Walmart Manana OH Reloc	26	106
P0001356	Mamala Phase 2 - Mamala		1,044
P0001398	Mamala Phase 3 - Mamala		208
P1690000	Minor T&D Customer Programs	202	80
P1690000	Waikiki Beach Walk Reloc V5920		74
P1690000	909 Kap Blvd Condo Reloc Pl, Waimano St		191
P1690000	Kam Hwy, Kii Bridge		109
P1690000	Best Buy - #852 Aiea, Hi		48
P6640000	New Interchange Improvements	110	
P9904000	H1 Widening Aiea	22	
	TOTAL CASH CONTRIBUTIONS	6,950	7,585

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HECO-WP-1608 DOCKET NO. 2006-0386 PAGE 4 OF 4 REVISED 6/7/07

HAWAIIAN ELECTRIC COMPANY, INC. In-Kind CIAC

		2006	2007
Project #	Project	Actual	Update
P0000507	Kam Hy-Resurf Waiahole-Cr Ln		26,303
P0000530	Ka lwi 12kV UG, Ph1 Inc 2	-	129,234
P0000598	Kahekili Hy Ltg OH/UG Conv	V.	13,200
P0000611	Kaneohe Bay Dr Improvements	-	86,337
P0000764	H-1 Widening Waimalu Reloc	:=	98,466
P0000834	46 kV Fdrs to Mamala Sub	V.	3,000,000
P0001046	Palehua East B 46kV UG PH 2	-	100,000
P0001072	Kakaako ID 12	:=	475,610
P0001075	Kam Hy-Kokololio Bridge Temp	∜ ≐	2,300
P0001268	Capitol Place Relocation V920		25,000
P0001306	Mililani Mauka Offsite Phase 16	i .	137,270
P0001342	Walmart Manana OH Relocation	(=	12,059
P0001357	Kapolei Pkwy Ext. OH to UG	漂	55,062
P1690000	Minor T&D Customer Programs		11,608
P1700000	Misc UG Svc & Extn (CID)	1,468,282	2,294,598
		1,468,282	6,467,047

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 4 Page 1 of 4

HECO-1609 DOCKET NO. 2006-0386 Page 1 of 1 REVISED 5/25/07

Hawaiian Electric Company, Inc.

2006 and 2007

CUSTOMER ADVANCES

(\$ Thousands)

Recorded balance - 12/31/05	\$	1,495	Reference
2006:			
Receipts		64	HECO-WP-1609
Refunds		(539)	HECO-WP-1609
Transfers to CIAC		(23)	HECO-WP-1609
2005 GET adjustment	(i)	4	
Recorded balance - 12/31/06	\$	1,001	
2007:			
Receipts		115	HECO-WP-1609
Refunds		(96)	HECO-WP-1609
Transfers to CIAC	a	(264)	HECO-WP-1609
Estimated balance - 12/31/07	\$	756	
Average 2007 balance	\$	879	

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HECO-WP-1609 DOCKET NO. 2006-0386 PAGE 1 OF 3 REVISED 5/25/07

Hawaiian Electric Company, Inc. Customer Advances

	Receipts		R	Refunds		ansfers
2006: Actual (from page 19) Less: GET Net	\$ \$	66,595 2,663 63,932	\$ \$	561,339 22,450 538,889	\$ \$ \$	24,228 969 23,259
2007: Forecast (from page 19) Less: GET Net	\$ \$	120,000 4,799 115,201	\$ \$	100,000 3,999 96,001	\$ \$	275,000 10,998 264,002

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HECO-WP-1609 DOCKET NO. 2006-0386 PAGE 2 OF 3 REVISED 5/25/07

Hawaiian Electric Company, Inc. Customer Advances

	Re	eceipts		F	Refunds	Tra	ansfers
2006:							
2006 Receipts - Actual (See Page 20 Attached)	\$	66,595					
2006 Refunds - Actual (See Page 20 Attached)			i	\$	561,339		
2006 Transfers - Actual (See Page 20 Attached)						\$	24,228
2007:							
2001 Recorded 2002 Recorded	\$ \$	282,432 192,578					
2003 Recorded	\$	42,286					
2004 Recorded 2005 Recorded	\$	128,459 38,095					
2006 Recorded	\$	66,595					
Net	\$	750,445	-				
2001-2006 Six-Year Average Economy Factor	\$	125,074 102.00%					
	\$	127,576	-				
2007 Receipts - Estimate	\$	120,000	■				
Customer Advance Balance @ 4/2007				\$	1,061,154		
Refunds paid over 10 years, Divide by 10				\$	106,115		
2007 Refunds - Estimate				\$	100,000		
1997 Customer Advances balance (adjuste Transfer to CIAC Factor	d for 2	007 estima	ited	refur	nds)	\$	306,678 90%
						\$	276,010
2007 Transfers - Estimate						\$	275,000

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 4 PAGE 4 OF 4

HECO-WP-1609 DOCKET NO. 2006-0386 PAGE 3 OF 3 REVISED 5/25/07

Hawaiian Electric Company, Inc. 2006 Actual Customer Advances Project Number and Description Detail

2006 Receipts - Actual

Parent Work Order Number	Project Description	Receipt Amount		
P0047957	Paul M. Adachi	\$	4,303	
P0033150	Kapolei Parkway Extension - Ewa		34,304	
P0038979	Terry Nii Murakami		16,184	
P0047124	Amy Habenstreit		11,804	
Total Receipts		\$	66,595	

2006 Refunds - Actual

Parent Work Order Number	Project Description	Refund Amount
P0193006	Kapolei City Road "D"	\$ 11,144
P0000316	Waipahu Mill Development Phase 1A	98,976
P0001314	Kapolei City Road "D" Extension	15,765
P0004416	Central Oahu Regional Park	187,421
P0000374	Domestic Fishing Village P36-38	33,981
P0006419	Amfac Industrial Subdivision Ph 1B	111,829
P0008958	Brookfield Homes Multifamily Subdivision	8,040
P0000821	Medeiros Trucking Inc	726
P0012800	The Peninsula Ph 1A, 1B, 2A	2,375
P0014438	Central Oahu Regional Park Ph 2	49,732
P0016266	Kaluanui Multifamily Development	2,610
P0023894	Mililani Mauka Multifamily 107 Ph B	3,600
P0030453	Operating Engineer - Infrastructure	21,522
P0028371	Glover Warehouse	13,618
Total Refunds		\$ 561,339

2006 Transfers - Actual

Parent Work Order Number	Project Description		ransfer Amount
P0216144	Kailua Express, Inc.	\$	241
P0216809	Island Recycling		7,630
P0218854	Alan Yamada		104
P0223766	Hong Sung Chu		7,994
P0024011	Edward Ing	704	8,259
Total Transfers		\$	24,228

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 1 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: HNL Demineralizer Upgrade

Plant Addition Date: 2006-11

Project Number: P0000640

Commitment Date: 2006-05

(Permanent)

Primary Corporate Goal: EAF

Stategic Plan Linkage: Reliability

Impact on Goal: High

(Primary)

Project Forecast (Thousand \$)							
(Attach the	"PR9105-P: F	or PIF" report	obtained from	the estimator:	s' Pillar file.)		
<u>Prior</u> <u>Years</u>	<u>2006</u>	2007	2008	2009	2010	<u>Future</u> <u>Years</u>	<u>Total</u>
\$0	\$1,197	\$0	\$0	\$0	\$0	\$0	\$1,197

Assessment Factors							
<u>Compliance</u>	<u>Competitive</u> <u>Advantage</u>	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>		
0	0	0	33	0	33		

Purpose/Objectives:

This project involves the installation of a new demineralizer system for the Honolulu Power Plant. Demineralized water (DW) is necessary for the operation of the H8 and H9 generating units.

Scope Description:

The proposed new demineralizer will use the reverse osmosis and electro-deionization process (RO/EDI), with a mixed bed polisher to serve as a backup to the EDI portion of the demineralizer. This is the same process that is used in the Waiau 5 demineralizer.

The new demineralizer is proposed to be built on the old turbine deck above the wastewater pits in the Alakea plant. This location allows the new equipment to be constructed without having to first demolish the old demineralizer. The wastewater produced by the new equipment will drain directly into the wastewater pits below; it has inherent spill containment. An existing 12,000-gallon tank on the turbine deck, used for the old demineralizer's regeneration wastewater, can be utilized in the new demineralizer process.

CA-IR-307 DOCKET NO. 2006-0386 **ATTACHMENT 5** PAGE 2 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:

Refer to attached Pillar labor hour report.

Justification:

The existing demineralizers are the original equipment installed with the Hicks plant in the 1950s. The automatic control system is inoperable, and the equipment is run manually. Several components have failed for which replacement parts are not available. This has reduced the level of reliability in the existing equipment.

JUSTIFICATION FOR THE TYPE OF NEW DEMINERALIZER SYSTEM

TYPES OF EQUIPMENT CONSIDERED

The following types of equipment and processes were considered for a replacement demineralizer:

- conventional ion exchange (IX, the type of process used by the current equipment)
- * reverse osmosis and electro-deionization (RO/EDI)
- * RO with a mixed bed polisher, with on-site regeneration
- * RO with a mixed bed polisher, using off-site regeneration
 * packed bed/mixed bed (this is a modified version of the conventional ion exchange system)

CRITERIA

The primary criteria used to evaluate the different systems were reliability and cost.

Reliability

An IX system would be designed with two-100% capacity trains providing full redundancy. Since regenerating the ion exchange vessels is required every day or every other day, two trains are necessary.

RO's are typically in operation continuously for three months before needing to be cleaned, so a backup RO is not included in the proposed project. The electro-deionization (EDI) module also has very little down time, as very clean water from the RO is fed into the EDI. It should be years before the EDI becomes fouled. The electrical problems in earlier EDI systems have been addressed by modern EDI systems.

The Waiau 5 RO/EDI system was the first of this type at HECO, and has been operating reliably for the past few vears.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 3 OF 63

PROJECT IDENTIFICATION FORM – AUTHORIZE PROJECT

Justification (continued):

Operating and Maintenance Cost

HECO has both IX and RO/EDI demineralizers, so actual operating and maintenance costs are known. These systems' electrical power costs are not included in the O&M costs below.

The operating cost of a conventional IX system is approximately \$11.50 per 1000 gallons of demineralized water (\$/kgal). The maintenance cost for IX demineralizers varies depending on the age and condition of the equipment. Honolulu PP's existing IX demineralizer has the highest maintenance cost (\$9.64/kgal), twice that of Kahe's IX system (\$4.38).

The Waiau 5 RO/EDI demineralizer's operating costs are around \$0.15/kgal, and maintenance costs are around \$0.65/kgal. Waiau 5 uses well water, so the cost of city water is not included in its operating cost. If the raw water supply to the Waiau 5 RO/EDI demineralizer were City water, the BWS charges would increase the operating cost of this typical RO/EDI system to approximately \$3.81/kgal.

Capital Cost

The capital costs for the different processes are listed in the attachment. The design philosophy for an IX system requires two-100% capacity process trains are proposed to be installed, because of the length of down time required when one of the trains is being regenerated. For an RO/EDI system, only a single 100% capacity train is required because it only requires a quarterly clean-in-place.

APWRR

Each of these processes' capital and O&M costs were evaluated using the Accumulated Present Worth of Revenue Requirements (APWRR) method. The RO/EDI system has the lowest APWRR, followed by the RO/mixed bed options. The results are shown in the attached pages.

OTHER FACTORS

Other factors were also considered, such as:

- The benefits of having acid and caustic stored on station for on-site regeneration of IX or mixed beds, compared to the benefits of not having these chemical tanks
- limiting the amount of wastewater produced by the new demineralizer in order to stay within the current wastewater discharge limits
- impact on the Board of Water Supply should the demineralizer require an increase in water usage
- · possible public reaction to an increase in city water usage

The latter two factors are discussed in the "Issues..." section below.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 4 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Relation to overall management operational objectives and consistency with IRP:

The installation of the Honolulu PP Demineralizer will support IPR objective no. 5.6 which is to, "improve the quality of electrical products and services." Since a key consideration of this objective is to, "maintain generating system reliability," the installation of the Honolulu PP Demineralizer will improve the reliability and availability of the Honolulu Power Plant.

Issues, Impacts, Considerations:

The impact on the Board of Water Supply and the possible public reaction to the proposed increase in city water are discussed here.

Two 4-inch water meters serve the Honolulu Power Plant's industrial needs, in addition to two smaller water meters for occupants' use. Each 4-inch meter is sized to provide 500 gpm of water. The sizes of the water meters are used by the BWS to determine the amount of water that they need to supply to a given area. The proposed new RO/EDI demineralizer will use much less than the 1000 gpm that the BWS can supply. The proposed increase in water usage will not affect the BWS infrastructure.

The Honolulu Power Plant's historical water usage has fluctuated, ranging from 6.5 million gallons in 2003 to 16.6 million gallons in 2005. The proposed demineralizer is expected to use 18 million gallons of water a year. This increase is not expected to draw attention, and is in fact, to be expected because of Honolulu Power Plant's increase in generation.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 5 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Contribut	IO	m	IS	:
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Contributions in aid of construction (CIAC):

- In Kind NONE
- In Cash NONE

Cash Advance NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party

NONE

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 6 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

PUC Approved: Approval F	Required Not Required
O Approved, Date of Decision & Order	r: Docket Number:
Awaiting PUC Approval, Application	Filed
Authorization for: Eng	gineering Materials Construction
Approval Option: Authorize expendit	ures that exceed budget \$1,137,384 68 4-13-
Submitted by: Jon Arakalo	Phone/Ext #: 1571
Originator's Name: Colin Higa	
Responsible Estimator: Michael Yuen (Pillar UserID)	Resp. Estimator Dept: Power Supply Engineering (Pillar Department Folder)
Project Manager: J. Arakaki	
	Date: 03/15/2006
	4
Required Approvals to Authorize a Pr	roject:
I	4/10/06
Responsible Manager	Date
Thomas O. Ammon	
Responsible Vice President (not required for budgeted projects \$1 million and	Date less)
VP, Government and Community Affa	airs Date
(not required if PUC approval is obtained	4/13/06
Controller Mx 4/2/66	Date
If project exceeds \$5 million (\$1M unbudgeted), a	additional approvals are required. Please call Management Accounting at x7729

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 7 OF 63

3/7/2006

» budget manager: PR9105-P: For PIF

2:01PM

*Project #	Project	*In	Cost Categ	Curr Upd New Total \$	Prior to 12/04 Act \$	Update 2006 \$	FY07 Update06	FY08 Update06	FY09 Update06	FY10 Update06
P0000640	HNL Demineralizer Upgrade	_	AFUDC	\$29,064	0	\$29,064	\$0	\$0	\$0	\$0
			MATERIAL	\$55,185	0	\$55,185	\$0	\$0	\$0	\$0
			OVERHEADS	\$34,099	0	\$34,099	\$0	\$0	\$0	\$0
				\$118,348	0	\$118,348	\$0	\$0	\$0	\$0
		NI	LABOR	\$38,394	0	\$38,394	\$0	\$0	\$0	\$0
			MATERIAL	\$390,000	0	\$390,000	\$0	\$0	\$0	\$0
		X	O/S SVCS	\$550,000	0	\$550,000	\$0	\$0	\$0	\$0
			,	\$978,394	0	\$978,394	\$0	\$0	\$0	\$0
		NR	O/S SVCS	\$100,000	0	\$100,000	\$0	\$0	\$0	\$0
			`	\$100,000	0	\$100,000	\$0	\$0	\$0	\$0
				\$1,196,741	0	\$1,196,741	\$0	\$0	\$0	\$0
			,	\$1,196,741	0	\$1,196,741	\$0	\$0	\$0	\$0

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 8 OF 63

3/7/2006

» budget manager: PR9105-PH: For PIF (labor hours)

2:03PN

*Project #	Project	*RA#	*Lbr Class	YTD Jan 06 Actual Hrs	Feb-Dec 06 Update Hrs	FY07 Update06	FY08 Update06	FY09 Update06	FY10 Update06	FY11 Update11
P0000640	HNL Demineralizer Upgrade	PIN	I_HPPMNT	0	400	0	0	0	0	0
P0000640	HNL Demineralizer Upgrade	PYF	Y_PPELEC	0	240	0	0	0	0	0
P0000640	HNL Demineralizer Upgrade	PYG	Y_PPDRAF	0	80	0	0	o	0	0
P0000640	HNL Demineralizer Upgrade	PYM	Y_PPMECH	0	400	0	0	o	0	o
P0000640				0	1,120	0	0	0	0	0
				0	1,120	0	0	0	0	0

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 9 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: H9 Volt Reg/Exciter Replace

Plant Addition Date: 2004-12

Project Number: P0000815

Commitment Date: 2004-04

(Permanent)

Primary Corporate Goal: EAF

Stategic Plan Linkage: Reliability

(Primary)

Impact on Goal: Medium

		Proj	ect Forecas	t (Thousand	\$)		
(Attach the	'View - 5-Yr P	roj Costs by I	nd & Cost Cat	report obtain	ed from the e	stimators' Pilla	r file.)
Prior						<u>Future</u>	
<u>Years</u>	2002	2003	2004	2005	2006	Years	Total
\$0	\$0	\$0	\$408	\$18	\$0	\$0	\$426

		Assessme	ent Factors		
Compliance	<u>Competitive</u> <u>Advantage</u>	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
0	0	0	33	0	33

Purpose/Objectives:

Improve unit reliability by replacing the generator exciter and voltage regulator.

MANAGEMENT ACCOUNTING MAR 8 2004

Scope Description:

Install a new motor driven exciter and voltage regulator on Honolulu Unit 9. Existing PTs and CTs will be used.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 10 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:
See attached Pillar files.
Justification:
The exciter and voltage regulator are the original equipment installed in 1957. The existing equipment is a maintenance burden to keep it operational. The 1997 Condition Assessment and Remaining Useful Life Report
recommends replacing the equipment in year 2007. Failure of the exciter will jepordize system availablity and
reliability.

Issues, Impacts, Considerations:

Improve unit reliability by installing a new exciter.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 11 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Contributions:
Contributions in aid of construction (CIAC):
- In Kind
- In Cash
Cash Advance
X
One I Observe
Cost Sharing (under HECO Policy UG Lines, October 2000)
Other type of payment (cash, non-cash) by outside party

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 12 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

PUC Approved: Approval Required Not Required	
Approved, Date of Decision & Order: Docket Number:	
Awaiting PUC Approval, Application Filed Authorization for: Engineering Materials Construction	
Approval Option: Authorize expenditures that exceed budget \$359,514 \$73-9-04	v 1
Submitted by: Alan Yoshida Phone/Ext #: 7363	
Originator's Name: Alan Yoshida Responsible Estimator: Alan Yoshida (Pillar UserID) Resp. Estimator Dept: Planning & Engineering (Pillar Department Folder)	
Project Manager: Alan Yoshida Date: 03/02/2004	
	_
Required Approvals to Authorize a Project:	
record tryerely 3/3/04	
Responsible Mañager Date	
Responsible Vice President Date (not required for budgeted projects \$1 million and less)	
VP, Government and Community Affairs Date (not required if PUC approval is obtained Alun 3-5-04	
Controller Date	

If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 13 OF 63

3/2/2004

» budget manager: PR9150-P: Cost Category \$

8:16AM

*Project #	Project	*M-Proj #	Cost Category	Curr Upd New Total \$	Proj to Date Act \$	Feb-Dec 04 Update \$	FY05 UPDATE04	FY06 UPDATE04	FY07 UPDATE04	FY08 UPDATE04
P0000815	H9 Volt Reg/Exciter R		AFUDC	\$10,781	0	\$10,781	\$0	\$0	\$0	\$0
			MATERIAL	\$17,699	0	\$16,206	\$1,493	\$0	\$0	\$0
			OVERHEADS	\$49,747	0	\$49,094	\$653	\$0	\$0	\$0
				\$78,227	0	\$76,061	\$2,148	\$0	\$0	\$0
		P0000815	LABOR	\$74,911	0	\$74,064	\$847	\$0	\$0	\$0
			MATERIAL	\$215,886	0	\$203,886	\$12,000	\$0	\$0	\$0
			O/S SVCS	\$56,060	0	\$53,563	\$2,507	\$0	\$0	\$0
				\$346,857	0	\$331,503	\$15,354	\$0	\$0	\$0
				\$425,084	0	\$407,585	\$17,500	\$0	\$0	\$0
				\$425,084	0	\$407,585	\$17,500	\$0	\$0	\$0

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3/1/2004

» budget manager: PR9110-PH: Detail Hrs

3:49PA

*Project #	Project	'M-Proj s	•R	*Ac	'Lo	*In	•E	*Lbr Class	Line item	YTD Jan 04 Actual Hrs		UPDATE04	UPDATE04	FY07 UPDATE04	POS UPDATEO4
P0000815	H9 Volt Reg/Excit	P0000815	PIT	212	H09	NI	150	_TVLELC	4. Electrician	0	600	0	0	0	0
								I_TVLSPV	4. Supervisor	0	24	0	0	0	0
								LTVLTCH	4. Technician	0	500	0	0	0	0
						NR	150	I_TVLELC	5. Electrician	0	120	0	0	0	0
			PYF	212	H09	NI	150	Y_PPELEC	2. Electrical	0	724	28	0	0	0
			PYG	211	H09	NI	150	Y_PPDRAF	2. Power Pla	0	0	0	0	0	0
			PYM	211	H09	NI	150	Y_PPMECH	2. Mechanic	0	240	0	0	0	0
										0	2,208	28	0	0	0
										0	2,208	28	0	0	0
										0	2.208	28	0		0

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 15 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: W5 Exciter/Regulator Replace

Plant Addition Date: 2008-01

Project Number: P0000816

Commitment Date: 2007-05

(Permanent)

Primary Corporate Goal: Sys Rel & Effic

Stategic Plan Linkage: Reliable & Adequate Pwr Sup

Impact on Goal: Medium

(Primary

		Proj	ect Forecast	t (Thousand	\$)		
(Attach the	"PR9105-P: F	or PIF" report	obtained from	the estimator	s' Pillar file.)		
Prior						Future	
Years	2007	2008	2009	2010	2011	<u>Years</u>	Total
\$0	\$898	\$310	\$0	\$0	\$0	\$0	\$1,208

		Assessme	ent Factors		
Compliance	<u>Competitive</u> <u>Advantage</u>	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
0	0	0	33	0	33

Purpose/Objectives:

The purpose of this project is to improve unit reliability by replacing the existing exciter and voltage regulator.

Scope Description:

The scope of this project includes removing the existing rotating exciter and installing a microprocessor-based static exciter and voltage regulator on Waiau Unit 5.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 16 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:

See attached Pillar file.

Justification:

The shaft driven exciter and voltage regulator are the original equipment installed in 1959. Modules are obsolete and parts are unavailable. Failure of the voltage regulator or exciter would require the use of the station spare exciter for unit operation. This would preclude performing preventative maintenance on the remaining units excitation systems, jeopardizing station and system availability and reliability. Failure of the voltage regulator will limit operation to manual voltage control. Operating the voltage regulator in manual control for extended periods of time jeopardize unit reliability in the event of a system disturbance.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 17 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Relation to overall management operational objectives and consistency with IRP:

The W5 Exciter Replacement project supports HECO's IRP-2 Object No. 5.6, which is to "Improve quality of electrical products and services." Since a key consideration of this objective is to "Maintain generating system reliability," the replacement of the W5 exciter and voltage regulator supports this objective since it will help ensure maximum reliability and availability for Waiau unit No. 5.

Issues, Impacts, Considerations:

.

Scope Definition - The current scope was determined by various Maintenance personnel and Engineering.

Schedule and Cost - The approximate lead time for the hardware is 24 weeks. Current cost is based on the actual costs of the Honolulu 9 Exciter Replacement project which was completed in 2007.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 18 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

^-		 	120	20200
Co	nı	uu	OF	IS:

Contributions in aid of o	construction ((CIAC)	ı:
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- In Kind NONE

- In Cash NONE

Cash Advance

NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party

NONE

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 19 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

PUC Approved:	 Approval Required 	Not Required
O Approved, Date of	of Decision & Order:	Docket Number:
Awaiting PUC Ap	pproval, Application Filed	
Authoriza	ation for: Engineering	Materials Construction
Approval Option:	Authorize expenditures that	exceed budget \$646,713 GS 5-17-06
Submitted by:	Kabutan	Phone/Ext #: x 7205_
Originator's Name:	R. Yokoi	
Responsible Estima (Pillar UserID)	ator: D. Kabutan	Resp. Estimator Dept: Power Supply Engineerin (Pillar Department Folder)
Project Manager:	D. Kabutan	
		Date: 04/30/2007
14	s to Authorize a Project:	
Debyw	Vanni 5/9/0	-
Responsible Manag	ger Date	e
Thomaso	J. Emmyn &	5/16/07
Responsible Vice P	resident Date	e
(not required for budgeted	projects \$1 million and less)	
	d Community Affairs Date	e
(not required if PUC appro		[07
Controller	me / 17/10 Date	e

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4/27/2007

» budget manager: PR9105-P: For PIF

4:22PM

*Project #	Project	*In	Cost Categ	Curr Upd New Total \$	Prior to 12/06 Act \$	Update 2007 \$	FY08 Update07	FY09 Update07	FY10 Update07	FY11 Update07	FY12 Update12
P0000816	W5 Exciter/Regulator R	OWEN	AFUDC	\$29,611	0	\$22,252	\$7,360	\$0	\$0	\$0	0
			MATERIAL	\$43,589	0	\$40,772	\$2,817	\$0	\$0	\$0	0
			OVERHEADS	\$67,360	0	\$67,360	\$0	\$0	\$0	\$0	o
				\$140,561	0	\$130,384	\$10,177	\$0	\$0	\$0	0
		NI	LABOR	\$62,849	0	\$62,849	\$0	\$0	\$0	\$0	0
			MATERIAL	\$351,832	0	\$324,105	\$27,727	\$0	\$0	\$0	0
			O/S SVCS	\$648,315	0	\$376,380	\$271,935	\$0	\$0	\$0	0
				\$1,062,995	0	\$763,334	\$299,661	\$0	\$0	\$0	0
		NR	LABOR	\$4,649	o	\$4,649	\$0	\$0	\$0	\$0	0
			-	\$4,649	0	\$4,649	\$0	\$0	\$0	\$0	0
				\$1,208,205	0	\$898,367	\$309,838	\$0	\$0	\$0	0
			•	\$1,208,205	0	\$898,367	\$309,838	\$0	\$0	\$0	0

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 21 OF 63

4/27/2007

» budget manager: PR9105-PH: For PIF (labor hours)

4:22PM

*Project #	Project	*RA #	*Lbr Class	YTD Mar 07 Actual Hrs	Apr-Dec 07 Update Hrs	FY08 Update07	FY09 Update07	FY10 Update07	FY11 Update07
P0000816	W5 Exciter/Regulator R	PBT	B_STR	0	150	0	o	o	0
P0000816	W5 Exciter/Regulator R	PIT	I_TVLBLR	0	450	0	0	o	0
P0000816	W5 Exciter/Regulator R	PYF	Y_PPE	0	1,400	0	0	0	0
P0000816				0	2,000	0	0	0	0
					2,000	0	0	0	0

CA-IR-307 DOCKET NO. 2006-0386 **ATTACHMENT 5 PAGE 22 OF 63**

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: H9 Generator Rotor Rewind

Plant Addition Date: 2006-01

Project Number: P0000870

Commitment Date: 2005-05

(Permanent)

Primary Corporate Goal: EAF

Stategic Plan Linkage: Reliability

Impact on Goal: Medium

(Primary)

	Project Forecast (Thousand \$)									
(Attach the	"PR9105-P: F	or PIF" report	obtained from	the estimator.	s' Pillar file.)					
Prior						<u>Future</u>				
<u>Years</u>	2004	2005	2006	2007	2008	Years	Total			
\$0	\$10	\$823	\$198	\$0	\$0	\$0	\$1,031			

Assessment Factors									
Compliance	Competitive Advantage	Financial Impact	Reliability	Corporate Image	<u>Total</u> Score				
0	0	0	33	0	33				

Purpose/Objectives:

THE PURPOSE OF THIS PROJECT IS TO REWIND THE GENERATOR ROTOR, WHICH HAS SHOWN TO HAVE SHORTED AND BROKEN WINDINGS (COILS).

Scope Description:

THE SCOPE INCLUDES REPLACING ALL OF THE GENERATOR ROTOR COILS, WHICH IS PROPERTY UNIT 314.810.12.20, WITH NEW COPPER, AND REPLACING ALL OF THE INSULATION WITH NEW INSULATING MATERIALS.

PU- votor cers

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 23 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:

SEE ATTACHED PILLAR REPORTS.

Justification:

THE EXISTING HONOLULU 9 GENERATOR ROTOR WAS COMMISSIONED 47 YEARS AGO, AND RECENT FLUX PROBE TESTS INDICATE THE PRESENCE OF SHORTED FIELD WINDINGS (COILS). SHORTED FIELD WINDINGS WILL CAUSE EXCESSIVE HEATING AND COULD LIMIT GENERATOR CAPACITY OR CAUSE A FORCED OUTAGE DUE TO HIGH VIBRATION. LOSS OF GENERATION AS SYSTEM LOAD CONTINUES TO INCREASE WILL JEOPARDIZE SYSTEM RELIABILITY AND COMPROMISE THE COMPANY'S ABILITY TO MEET ITS OBLIGATION TO PROVIDE RELIABLE POWER. ADDITIONAL INVESTIGATION REVEALED THAT THERE ARE WINDINGS THAT HAVE BROKEN OFF FROM THE ROTOR. THIS COULD PORTEND CATASTROPHIC FAILURE IN THE NEAR FUTURE.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 24 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Relation to overall management operational objectives and consistency with IRP:

THE H9 GENERATOR ROTOR REWIND PROJECT SUPPORTS HECO'S IRP-2 OBJECTIVE NO. 5.6, WHICH IS TO "IMPROVE THE QUALITY OF ELECTRICAL PRODUCTS AND SERVICES." SINCE A KEY CONSIDERATION OF THIS OBJECTIVE IS TO "MAINTAIN GENERATING SYSTEM RELIABILITY," THE REWINDING OF THE H9 GENERATOR ROTOR SUPPORTS THIS OBJECTIVE SINCE IT WILL HELP ENSURE MAXIMUM RELIABILITY AND AVAILABILITY FOR HONOLULU UNIT NO. 9.

Issues, Impacts, Considerations:

SCOPE DEFINITION - THE CURRENT SCOPE WAS DETERMINED BY VARIOUS MAINTENANCE PERSONNEL AND ENGINEERING.

SCHEDULE AND COST - THE APPROXIMATE LEAD TIME FOR THE NEW COPPER COILS IS ABOUT 5 WEEKS FOR MILL PRODUCTION TIME. THE CURRENT COST IS BASED ON A BID EVALUATION FOR THIS PROJECT.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 25 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

THE RESERVE AND ADDRESS.	45100	• 5.000	- W-			
Con	rri	hı	111	2	ne	
OUL		v		v	110	

Contributions in aid of constr	ruction	(CIAC).
--------------------------------	---------	---------

- In Kind NONE

- In Cash NONE

Cash Advance NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party NONE

CA-IR-307 DOCKET NO. 2006-0386 **ATTACHMENT 5** PAGE 26 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

	PUC Approved:	O Approval Re	quired	Not Required		
	O Approved, Date	of Decision & Order:	THE COMMAND	Docket	Number:	
	Awaiting PUC A	Approval, Application F	iled			
	Authoriz	zation for: Engin	eering	Materials	Construction	on
	Approval Option:	Authorize expenditur	es that exce	eed budget	\$1,029,9	ロラ
	Submitted by:	iun Kabuta	n	Phone/E	xt#: 720)5_
	Originator's Name	: Larry Ornellas				
	Responsible Estin (Pillar UserID)	nator: Dawn Kabutan			nator Dept: Powe tment Folder)	r Supply Engineering
	Project Manager:	Dawn Kabutan				
1					Date:	05/02/2005
MO	Required Approva	ls to Authorize a Proj	ect:			
M	O. He	in	5/6/05			
(A)	Responsible Mana	ger	Date			
V	Thomas	80.8mmm	5/11	105		
	Responsible Vice (not required for budgete	President ed projects \$1 million and le	Date ss)			
	VP, Government a	nd Community Affair	s Date			
mk.	Faran A SV		5/16/05			
plidos	Controller		Date			

If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 27 OF 63

4/28/2005

» budget manager: PR9105-P: For PIF

1:43PM

*Project #	Project	*In	Cost Categ	Curr Upd New Total \$	Prior to 12/04 Act \$	Update 2005 \$	FY06 UPDATE05	FY07 UPDATE05	FY08 UPDATE05	FY09 UPDATE05
P0000870	H9 Generator Rotor Re	_	AFUDC	\$24,284	0	\$18,620	\$5,665	\$0	\$0	\$0
			MATERIAL	\$25,073	0	\$20,058	\$5,015	\$0	\$0	\$0
			OVERHEADS	\$50,511	0	\$45,140	\$5,371	\$0	\$0	\$0
				\$99,868	0	\$83,818	\$16,050	\$0	\$0	\$0
		NI	AFUDC	\$381	\$134	\$247	0	0	0	0
			LABOR	\$59,488	\$5,834	\$45,637	\$8,017	\$0	\$0	\$0
			MATERIAL	\$248,000	0	\$198,400	\$49,600	\$0	\$0	\$0
			O/S SVCS	\$555,115	0	\$431,249	\$123,866	\$0	\$0	\$0
			OVERHEADS	\$5,305	\$4,288	\$1,017	0	0	0	0
			,	\$868,289	\$10,256	\$676,550	\$181,483	\$0	\$0	\$0
		NR	LABOR	\$20,824	0	\$20,824	\$0	\$0	\$0	\$0
			O/S SVCS	\$41,698	0	\$41,698	\$0	\$0	\$0	\$0
			-	\$62,522	0	\$62,522	\$0	\$0	\$0	\$0
				\$1,030,679	\$10,256	\$822,890	\$197,533	\$0	\$0	\$0
				\$1,030,679	\$10,256	\$822,890	\$197.533		\$0	\$0

4/28/2005

» budget manager: PR9300-PH: RA Hrs

1:43PM

*Project #	Project	*M-Proj #	*RA#	*Lbr Class	YTD Mar 05	Apr-Dec 05 Update Hrs	FY06 UPDATE05	FY07 UPDATE05	FY08 UPDATE05	FY09 UPDATE05
P0000870	H9 Generator Rotor Re	G0011086	PYC		0	0	0	0	0	0
					0	0	0	0	0	0
			PYE		0	0	0	0	0	0
					0	0	0	0	0	0
			PYF		0	0	0	0	0	0
				Y_PPELEC	43.00	0	0	0	0	0
					43.00	0	0	0	0	0
					43.00	0	0	0	0	0
		P0000870	PIT	I_TVLBLR	0	1,100	140	0	0	0
				I_TVLELC	0	85	5	0	0	0
				I_TVLMCH	0	200	20	0	0	0
				I_TVLSPV	0	75	10	0	0	0
					0	1,460	175	0	0	0
			PYE	Y_TECHSV	0	180	30	0	0	0
					0	180	30	0	0	0
			PYF		0	0	0	0	0	0
				Y_PPELEC	0	260	20	0	0	0
					0	260	20	0	0	0
					0	1,900	225	0	0	0
					43.00	1,900	225	0	0	0
					43.00	1,900	225			

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 29 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: K1 MS Replacement

Plant Addition Date: 2006-08

Project Number: P0000957

Commitment Date: 2005-08

(Permanent)

Primary Corporate Goal: EAF

Stategic Plan Linkage: Reliability

Impact on Goal: High

(Primary)

		Proje	ect Forecast	t (Thousand	\$)		
(Attach the	"PR9105-P: F	or PIF" report	obtained from	the estimators	s' Pillar file.)		
Prior Years	2005	2006	2007	2008	2009	<u>Future</u> <u>Years</u>	Total
\$0	\$16	\$750	\$0	\$0	\$0	\$0	\$766

		Assessme	ent Factors		
Compliance	Competitive Advantage	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
15	0	0	33	0	48

Purpose/Objectives:

TO ENSURE SAFE AND RELIABLE OPERATION OF KAHE UNIT NO. 1, THE EXISTING MAIN STEAM PIPE LINES, VALVES AND HANGERS WILL BE REPLACED. (NOTE: THE TOTAL ESTIMATED COST OF \$766K INCLUDES APPROXIMATELY \$32K OF REMOVAL COSTS.)

Scope Description:

REPLACE THE KAHE UNIT NO. 1 MAIN STEAM PIPING, MAIN STEAM VALVE, AND PIPE HANGERS DURING THE UNIT'S 2006 OVERHAUL.

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CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 30 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:

REFER TO THE ATTACHED PILLAR VIEW "K1 MAINSTEAM REPL" BUDGET & LABOR FORECASTS

Justification:

KAHE 1 WAS BUILT IN 1961 USING THE P11 CHROME-MOLY PIPING MATERIAL FOR THE MAIN STEAM LINE. IN 1965 & 1989 ASME DERATED THE P11 MATERIAL LOWERING THE ALLOWABLE DESIGN STRESS. TO PREVENT THE RISK OF PIPE FAILURE AND TO MEET THE CURRENT ASME CODE, THE MAIN STEAM PIPE SHOULD BE REPLACED WITH HIGHER CHROME-MOLY CONTENT P22 PIPE MATERIAL. HECO HAS ALSO BEEN MONITORING THE WELD AND PIPE BEND THINING SINCE 1989. SEVERAL BENDS HAVE SHOWN SIGNS OF WALL THINNING.

THE MAIN STEAM VALVE WILL ALSO BE REPLACED AND UPGRADED WITH THE HIGHER P22 CHROME-MOLY MATERIAL. THE ORIGINAL VALVE WAS FURNISHED WITH THE SAME P11 CHROME-MOLY MATEIRAL AS THE PIPE THAT WILL BE REPLACED. IN THE PAST, CREEP DAMAGE HAS BEEN IDENTIFIED IN THE WELDS BETWEEN THE VALVE AND PIPING. FOR PIPING AND VALVES OF THIS AGE, CARBIDE PRECIPITATION AND AGGLOMERATION CAN BE EXPECTED AND HAS BEEN NOTED. THIS CONDITION IS A PRECURSOR TO CREEP DAMAGE AND FAILURE.

THE SPRING HANGERS ARE OVER 40 YRS OLD AND WILL BE REPLACED WITH A NEWLY ENGINEERED SUPPORT SYSTEM. THE AVERAGE LIFE EXPECTANCY OF THESE TYPES OF HAGERS ARE 15-20 YEARS. PAST INSPECTIONS ALSO REVEALED THAT THE EXISTING HANGER SUPPORTS CLOSEST TO THE MAIN STEAM VALVE, WERE NOT PROPERLY SUPPORING THEIR LOADS AND WERE SCHEDULED FOR REPLACEMENT. ADDITIONALLY, THE NEW P22 PIPING WILL LIKELY REQUIRE NEW HANGER LOADINGS AND CONFIGURATION FOR PROPER SUPPORT AND FLEXIBILITY.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 31 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Relation to overall management operational objectives and consistency with IRP:

THE K1 MAIN STEAM LINE REPLACEMENT PROJECT SUPPORTS HECO'S IRP-2 OBJECTIVE NO. 5.6, WHICH IS TO "IMPROVE THE QUALITY OF ELECTRICAL PRODUCTS AND SERVICES." SINCE A KEY CONSIDERATION OF THIS OBJECTIVE IS TO "MAINTAIN GENERATING SYSTEM RELIABILITY," THE REPLACEMENT OF THE K1 MAIN STEAM LINE SUPPORTS THIS OBJECTIVE SINCE IT WILL HELP TO ENSURE MAXIMUM RELIABILITY AND AVAILIBILITY FOR KAHE UNIT NO. 1

Issues, Impacts, Considerations:

SUDDEN FAILURE OF THIS HIGH ENERGY STEAM LINE WOULD LIKELY BE EXTREMELY VIOLENT, WHICH WOULD JEOPARDIZE THE LIVES OF HECO PERSONEL AND WOULD SEVERELY DAMAGE ADJACENT EQUIPMENT. SUCH A FAILURE WOULD RESULT IN AN EXTENDED FORCED OUTAGE.

FOR K1, IT IS ESTIMATED THAT A FORCED OUTAGE WILL HAVE A HEAT RATE IMPACT OF MORE THAN \$3K PER DAY IN ADDITIONAL FUEL COSTS.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 32 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Con	trib	esti	or	10
COLL	UIN	uu	•	ю.

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Contributions	in aid of	construction (CIAC	ı:

- In Kind NONE

- In Cash NONE

Cash Advance NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party

NONE

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 33 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

PUC Approved: Approval Required Not Required
Approved, Date of Decision & Order: Docket Number:
Awaiting PUC Approval, Application Filed
Authorization for: Engineering Materials Construction
Approval Option: Authorize expenditures that exceed budget \$\partial 8-15.05 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Submitted by: Alvin Kurisa Phone/Ext #: 7745
Originator's Name: Ed Chang
Responsible Estimator: Alvin Kurisu (Pillar UserlD) Resp. Estimator Dept: Planning & Engineering (Pillar Department Folder)
Project Manager: Alvin Kurisu
Date: 08/02/2005
Required Approvals to Authorize a Project:
2 24 -1
700700
Responsible Manager Date
Responsible Vice President Date
(not required for budgeted projects \$1 million and less)
VP, Government and Community Affairs Date (not required if PUC approval is obtained
Farry Hours 8/15/05
Controller Date
ହୁ ୪/ସିଚର୍ଚ୍ଚ If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

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Project	į	Cost Categ	Curr Upd New Total \$	Prior to 12/04 Act \$	Update 2005	FY06 UPDATE05	FY07 UPDATE05	FY08 UPDATE05	FY09 UPDATE05
K1 MS Replacement	ı	AFUDC	\$18,153	0	\$310	\$17,843	8	\$0	8
		MATERIAL	\$42,968	0	8	\$42,968	8	0\$	3
		OVERHEADS	\$90,143	0	\$6,707	\$83,436	8	0\$	0\$
		1	\$151,264	0	\$7,018	\$144,247	0\$	\$	8
	Z	LABOR	\$119,972	0	\$8,335	\$111,637	8	0\$	9
		MATERIAL	\$425,000	0	8	\$425,000	8	3	\$
		O/S SVCS	\$35,200	0	\$100	\$35,100	S	\$	\$
		ı	\$580,172	0	\$8,435	\$571,737	8	8	8
	R	LABOR	\$18,838	0	8	\$18,838	8	9	8
		O/S SVCS	\$15,000	0	0\$	\$15,000	\$	\$	\$
		08	\$33,838	0	0\$	\$33,838	9	0\$	9
		lė.	\$765,275	0	\$15,453	\$749,822	0\$	0\$	0\$
			\$765 275		\$15 AE3	\$740.899	\$	100	60

7/27/2005

127/2005					nq .	» budget manager: PR9105-PH: For PIF (labor hours)	H: For PIF (lab	or hours)		
*Project #	Project	*RA#	"Lbr Class	YTD Jun 05 Actual Hrs	Jul-Dec 05 Update Hrs	FY06 UPDATE06	FY07 UPDATE05	FY08 UPDATE06	FY09 UPDATE06	FY10 Update10
72600000	K1 MS Replacement	PBA	BUOCE	0	10	80	0	o	0	0
2900000	K1 MS Replacement	님	LKPPMNT	0	0	650	0	0	0	0
70000957	K1 MS Replacement	PIT	LTVLBLR	0	0	2,270	0	0	0	0
75600000	K1 MS Replacement	PIT	LTVLSPV	0	20	8	0	0	0	0
75600000	K1 MS Replacement	PYE	Y_TEC	0	20	99	0	0	0	0
75600000	K1 MS Replacement	PYF	Y_PPE	0	20	0	0	0	0	0
200000	K1 MS Replacement	PYG	Y_PPD	0	8	8	0	0	0	0
7300000	K1 MS Replacement	PYM	Y_PPM	0	140	385	0	0	0	0
20000957				0	240	3,463	0	0	0	0
			20	0	240	3,463	0	0	0	0

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 36 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: H9 SSH Element Replacement

Plant Addition Date: 2006-12

Project Number: P0000959

Commitment Date: 2006-03

(Permanent)

Primary Corporate Goal: EAF

Filliary Co.

Stategic Plan Linkage: Reliability

Impact on Goal: High

(Primary)

		Proje	ect Forecast	t (Thousand	\$)		
(Attach the	"PR9105-P: F	or PIF" report	obtained from	the estimator	s' Pillar file.)		
<u>Prior</u> <u>Years</u>	2006	2007	2008	2009	2010	Future Years	Total
\$0	\$1.070	\$80	\$0	\$0	\$0	\$0	\$1,150

		Assessme	ent Factors		
Compliance	<u>Competitive</u> <u>Advantage</u>	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
0	0	0	33	0	33

Purpose/Objectives:

IN ORDER TO ENSURE THE EFFICIENT, RELIABLE OPERATION OF HONOLULU UNIT NO. 9, ALL OF THE SECONDARY SUPERHEATER TUBE ELEMENTS WILL BE REPLACED.

MANAGEMENT ACCOUNTS A

MAP 2 0 2006

Scope Description:

REPLACE THE HONOLULU UNIT NO. 9 SECONDARY SUPERHEATER BUNDLE DURING THE UNIT'S 2006 OVERHAUL.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 37 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:

REFER TO THE ATTACHED PILLAR VIEW.

Justification:

AN ASSESSMENT OF THE HONOLULU UNIT NO. 9 BOILER SHOWED THAT SECTIONS OF THE SECONDARY SUPERHEATER WERE SEVERELY DAMAGED AND WERE LIKELY TO FAIL IN THE NEAR FUTURE. AS RECENTLY AS JANUARY 2006, A LEAK WAS DISCOVERED IN ONE OF THE SECONDARY SUPERHEATER ELEMENTS. THE CAUSE WAS BELIEVED TO BE FROM A PARTIAL TO COMPLETE BLOCKAGE OF A TUBE ELEMENT THAT LED TO A LOW OR NO FLOW CONDITION. IN THE AREA OF THE BLOCKAGE, THE SECONDARY SUPERHEATER TUBE METAL BURST DUE TO DIMINISHED FLOW TO THE BOILER STEAM AND THE EXTREME TEMPERATURE ENVIRONMENT. CHECKS ON THE CONDITION OF THE SUPERHEATER IN THE PAST HAVE INDICATED SEVERE INTERNAL SCALE AND PLATED DEPOSITS. THESE TUBE CONDITIONS AND THE CYCLING OF THE BOILER AT THE CURRENT OPERATING PROFILE WILL LEAD TO ADDITIONAL EXCURSIONS AND POSSIBLE SECONDARY SUPERHEATER ELEMENT FAILURES. THE REPAIR WAS COMPLETED BY PLUGGING BOTH ENDS OF THE RUPTURED TUBE.

THE REPAIR COST APPROXIMATELY \$19,000 AND THE UNIT WAS UNAVAILABLE FOR 5 DAYS. DURING TIMES OF PEAK DEMAND WHEN H9 IS SCHEDULED TO BE RUN, A SUBSTITUTION OF A COMBUSTION TURBINE IN ITS STEAD WILL LEAD TO A FUEL COST IMPACT OF \$26,793 FOR 10 HOURS OF OPERATION AND A COST OF \$12,535 FOR 5 HOURS OF OPERATION. IF H9 IS SUBJECT TO A DERATE OR BLOCK AT 35 MW DUE TO SUPERHEATER FAILURES, THE FUEL COST IMPACT IS \$3,811 PER DAY.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 38 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Relation to overall management operational objectives and consistency with IRP:

THE HONOLULU UNIT NO.9 SECONDARY SUPERHEATER REPLACEMENT PROJECT SUPPORTS HECO'S IRP-2 OBJECTIVES NO. 5.6 (IMPROVE THE QUALITY OF ELECTRICAL PRODUCTS AND SERVICES). A KEY CONSIDERATION OF THE OBJECTIVE IS TO MAINTAIN GENERATING SYSTEM RELIABILITY AND THE REPLACEMENT OF THIS SUPERHEATER WILL BOTH IMPROVE RELIABILITY BY REDUCING THE PROBABILITY OF A SUPERHEATER ELEMENT FAILURE AND REDUCE FUEL COSTS BY REDUCING THE NEED TO OPERATE A COMBUSTION TURBINE IN HONOLULU UNIT NO. 9'S PLACE.

Issues, Impacts, Considerations:

THE OVERHAUL OF HONOLULU UNIT NO. 9 ADVANCED CONSIDERABLY TO ACCOMODATE THIS SYSTEM RELIABILITY REPAIR AND OTHER CRITICAL REPAIRS. THE LAST SYMPTOM RELATED TO THE DETERIORATION OF THE SECONDARY SUPERHEATER OCCURED IN JANUARY WITH A DURATION OF 10 DAYS AND A REPAIR COST OF \$19,000.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 39 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Contributions:

Contributions in aid of construction (CIAC):

- In Kind NONE

- In Cash NONE

Cash Advance NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party

NONE

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 40 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

PUC Approved: Approval Required Not Required	
Approved, Date of Decision & Order: Docket Num	ber:
Awaiting PUC Approval, Application Filed Authorization for: Engineering Materials	Construction
Approval Option: Authorize expenditures that exceed budget \$1,1	145, 032 65 3-31-04
Submitted by: RYAN ERUMAN Phone/Ext #	7035
Originator's Name: Ben Flores	
Responsible Estimator: Ryan Erdman (Pillar UserID) Resp. Estimato (Pillar Departmen	r Dept: Power Supply Engineering t Folder)
Project Manager: Ryan Erdman	Date: 02/14/2006
<i>A</i>	
Required Approvals to Authorize a Project:	Antimetrosolo e eximulatione e e e e e e e e e e e e e e e e e e
1	
Responsible Mariager Date Thomas C. Ammin 3/17/06	
Responsible Vice President Date (not required for budgeted projects \$1 million and less)	
VP, Government and Community Affairs Date (not required if PUC approval is obtained FARTY A TAMA 3/20/05	
Controller #20/0p Date	

If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

Rpts05PNED-Dec05-KYamashi.CTL

			» budget mana	» budget manager: PR9105-P:	For PIF				2:55PM
Project	.	Cost Categ	Curr Upd New Total \$	Prior to 12/04 Act \$	Update 2005	FY06 UPDATE05	FY07 UPDATE05	FY08 UPDATE05	FY09 UPDATE05
H9 SSH Element Repla	1	AFUDC	\$22,698	0	0	\$22,698	\$0	\$0	0\$
		MATERIAL	\$83,567	0	0	\$75,293	\$8,274	\$0	\$0
		OVERHEADS	\$111,750	0	0	\$110,626	\$1,124	\$0	\$0
			\$218,015	0	0	\$208,618	\$9,398	\$0	0\$
	ž	LABOR	\$103,050	0	0	\$102,210	\$840	\$0	\$0
		MATERIAL	\$707,000	0	0	\$637,000	\$70,000	\$0	\$0
		O/S SVCS	\$66,100	0	0	\$66,100	\$0	\$0	\$0
2	si.		\$876,150	0	0	\$805,310	\$70,840	0\$	\$0
	R	LABOR	\$32,262	0	0	\$32,262	\$0	0\$	\$0
		O/S SVCS	\$15,000	0	0	\$15,000	\$0	0\$	\$0
			\$47,262	0	0	\$47,262	\$0	\$0	\$0
		-D	\$1,141,427	0	0	\$1,061,190	\$80,238	\$0	0\$
		3 .	\$1,141,427	0	0	\$1,061,190	\$80,238	80	\$0

*Project #

2/10/2006

2/10/2006				" bu	» budget manager: PR9105-PH: For PIF (labor hours)	5-PH: For PIF (labo	or hours)			2:57PM
*Project #	Project	*RA	*Lbr Class	YTD Dec	Update Hrs	FY06 UPDATE05	FY07 UPDATE05	FY08 UPDATE05	FY09 UPDATE05	FY10 Update10
P0000959	H9 SSH Element Repla	PBA	BUOCB	0	0	10	10	0	0	0
P0000959	H9 SSH Element Repla	PIN	I_HPPMNT	0	0	1,100	0	0	0	0
P0000959	H9 SSH Element Repla	PIT	I_TVLBLR	0	0	1,800	0	0	0	0
P0000959	H9 SSH Element Repla	PIT	I_TVLSPV	0	0	120	0	0	0	0
P0000959	H9 SSH Element Repla	PYE	Y_TEC	0	0	88	0	0	0	0
P0000959	H9 SSH Element Repla	PYF	Y_PPE	0	0	110	0	0	0	0
P0000959	H9 SSH Element Repla	PYG	Y_PPD	0	0	20	20	0	0	0
P0000959	H9 SSH Element Repla	PYM	Y_PPM	0	0	485	0	0	0	0
P0000959				0	0	3,725	30	0	0	0
				0	0	3,725	90	0	0	0

Page 1 of

Rpts05PNED-Dec05-KYamashi.CTL

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 43 OF 63

Initialize/Authorize

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

Project Title: HECO Vault 15 Relocate

Plant Addition Date: 2005-05

Project Number: RKANESHI23_

Commitment Date: 2005-03

(Temporary)

Primary Corporate Goal: SAIF

Stategic Plan Linkage: Reliability

Impact on Goal: Medium

(Primary)

		Proj	ect Forecast	t (Thousand	\$)		
Attach the	'View - 5-Yr F	Proj Costs by Ir	nd & Cost Cat"	report obtaine	ed from the es	timators' Pillai	r file.)
Prior						Future	
Years	2004	2005	2006	2007	2008	Years	Total
\$0	\$30	\$300	\$0	\$0	\$0	\$0	\$330

		Assessme	ent Factors		
Compliance	Competitive Advantage	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
15	0	0	66	0	81

Purpose/Objectives:

Relocate the transformers in Heco vault 15 to Heco vault 413 due to accessibility problems in vault 15.

Scope Description:

Relocate the network transformers that serve Heco building and surrounding properties to a location that is more accessible and outside of Heco building. Reconductor the relocated network transformer(s) to the Downtown network system.

Employees a ACCOUNTY

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CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 44 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

Resource Needs: See pillar file.
Justification: Currently, two 750kva network transformers serve HECO's King St. Building and surrounding properties from the Downtown network system. These network transformers are over thirty years old and are located in the basement of the building. Restoration of electrical service as a result of failure of either/both network transformers would be prolonged since means to remove/install transformers from the vault would require demolition of the sidewalk and walls of the building. The freight elevator that was used to transport the transformers to the basement vault was removed from service some time ago. The potential for significant fire and smoke damage also exists since the vault is in the basement of an enclosed building.
Issues, Impacts, Considerations:

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 45 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

Contributions:
Contributions in aid of construction (CIAC):
- In Kind
- In Cash
Cash Advance
Cost Sharing
(under HECO Policy UG Lines, October 2000)
Other type of payment (cash, non-cash) by outside party

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 46 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

PUC Approved: Approval Required Not Required
Approved, Date of Decision & Order: Docket Number:
Awaiting PUC Approval, Application Filec
Authorization for: Engineering Materials Construction
y .
Approval Option: Authorize expenditures that are unbudgeted
Submitted by: Mathan Bang Phone/Ext #: 1978
Originator's Name: Nathan Liang
Responsible Estimator: Robin Kaneshiro (Pillar UserID) Resp. Estimator Dept: Engineering (Pillar Department Folder)
Project Manager: Robin Kaneshiro
REVIEWED & RECOMMENDED FOR APPROVAL:
C3-6/VING 7/27/04
Chairman, CEM Core Group Date
Kat. Mou 7/29/04
Chairman, EDF Managers Group Date
Required Approvals to Authorize a Project:
Stal 7 (1.121 1/27/04
Responsible Manager Date
Chris m. Shrini 7/29/04
Responsible Vice President Date (not required for budgeted projects \$1 million and less)
VP, Government and Community Affairs Date (not required if PUC approval is obtained White State Figure 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Controller Date

If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

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Version: May04

Page 1

HECO VIt 15 Removal. PLN

7/21/2004			*VIEW:	5-Yr Proj Cost by	"VIEW: 5-Yr Proj Cost by Ind & Cost Cat			2:28PM
*Project #	# pul.	Cost Categ	Total 5 Year Cost	FY04	FY05	FY06	FY07	FY08
RKaneshi23_	3	AFUDC	\$5,003.17	\$778.63	\$4,224.54	\$0.00	\$0.00	\$0.00
RKaneshi23_	ţ	MATERIAL	\$6,998.70	\$0.00	\$6,998.70	\$0.00	\$0.00	\$0.00
RKaneshi23_	1	OVERHEADS	\$88,453.88	\$16,969.48	\$71,484.40	\$0.00	\$0.00	\$0.00
RKaneshi23_			\$100,455.75	\$17,748.12	\$82,707.64	\$0.00	\$0.00	\$0.00
RKaneshi23_	빌	LABOR	\$1,880.50	\$0.00	\$1,880.50	\$0.00	\$0.00	\$0.00
RKaneshi23_	빌		\$1,880.50	\$0.00	\$1,880.50	\$0.00	\$0.00	\$0.00
RKaneshi23_	Z	LABOR	\$67,526.60	\$12,013.92	\$55,512.68	\$0.00	\$0.00	\$0.00
RKaneshi23_	Z	MATERIAL	\$74,613.00	\$0.00	\$74,613.00	\$0.00	\$0.00	\$0.00
RKaneshi23_	ī	O/S SVCS	\$81,960.00	\$0.00	\$81,960.00	\$0.00	\$0.00	\$0.00
RKaneshi23_	Z		\$224,099.60	\$12,013.92	\$212,085.68	\$0.00	\$0.00	\$0.00
RKaneshi23_	Ř	LABOR	\$3,610.56	\$0.00	\$3,610.56	\$0.00	\$0.00	\$0.00
RKaneshi23_	ž		\$3,610.56	\$0.00	\$3,610.56	\$0.00	\$0.00	\$0.00
RKaneshi23_			\$330,046.41	\$29,762.04	\$300,284.38	\$0.00	\$0.00	\$0.00
			\$330,046.41	\$29,762.04	\$300,284.38	\$0.00	\$0.00	\$0.00

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	0	0 1	0 0	0 0	0	0	0	0	0	0	0	0	0	0
Commence of the Party of the Pa	128	8 7	24	112	5 4	20	800	86	24	24	192	160	1,750	1,750
A STATE OF THE PERSON NAMED IN	128	0	5 5	8 0	0	0	0	0	0	0	0	0	380	360
China de la facilitat de la fa	256	99	128	2/0	5 4	98	800	86	24	24	192	160	2,140	2,140
	Electrical - Design UG Distribution Line	Electrical - Drafting	CSA - Drafing	U.S. Distriction - Construction - Flectrical Switching	CSA Inspection	UG Distrb Line - C/O	UG Distrb Line - Construction - Electrical- Crews	UG Distrb Line - Removals	UG Distrb Line - Supervisor - UG Crew	Relay - Protector Settings	Electrical Construction - Substation	Police		ŗ
	B_TNDENG	B_TNDDFT	B_STRENG	D PTM	D UGCREW	D_UGCREW	D_UGCREW	D_UGCREW	_TCS-ED	R_RELCRW	R_SUBCRW	POLICE		
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-			416			416				417	416	416		
-	PBE	PB 1	PBT	2 6	PDS	PDS	PDS	PDS	PDS	PRR	PRS	PZP		
	MProj01	MProj01	MProj01	MProjot	MProj01	MProj01	_MProj01_	_MProj01_	_MProj01_	_MProj01_	MProj01	MProj01		
Contract of the last of the la	RKaneshi23_	RKaneshi23	RKaneshi23_	RKaneshi23	RKaneshi23	RKaneshi23	RKaneshi23_	RKaneshi23_	RKaneshi23_	RKaneshi23_	RKaneshi23_	RKaneshi23	RKaneshi23_	

2:28PM FY08

FY07

FY06

FY05

FY04

Total 5 Year Lbr Hour

"VIEW: 5-Yr Proj Labor Hour

"RA # "Act # "Loc # "Ind # "EE # "Labor Class # Line item

*Project #

1

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 49 OF 63

PRODUCTION CHANGE REQUEST (PCR) FORM

District:	P-HECO
Temporary Project Number: Project Number:	RKANESHI23_ P0001047
Project Title: (28 characters)	HECO Vault 15 Relocate
Short Project Title: (10 characters)	VIt 15 RIc
Originator Employee's Number:	20189
Person Assigned To:	Robin Kaneshiro
Person Assigned to Employee Number:	20549
Responsibility Area:	PDS
Activity:	416
Location:	OAH
Indicator:	NI me
Apply AFUDC (yes or no):	Yes M.
Existing Grandparent Project Number: or	
New Grandparent Project Description:	
Pillar Temporary Projects or 5th Segment Projects to link to Grandparent Project above:	
Plant Addition Date:	2005-05
Plant Functional Category:	Distribution we
Project or Program:	Project
For Admin use only: Date updated MIMS Prod files: 8/24/04-04	

AU-A

Copy given to Pillar Admin:

Date:

07/23/2004

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 50 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Project Title: 150 Feet Aerial Platform Trk

Plant Addition Date: 2007-03

Project Number: P0001155

Commitment Date: 2006-04

(Permanent)

Primary Corporate Goal: CAID

Stategic Plan Linkage: Reliability

Impact on Goal: Medium

(Primary)

		Proj	ect Forecas	t (Thousand	\$)		
Attach the	"PR9105-P: F	or PIF" report	obtained from	the estimator	s' Pillar file.)		
Prior						Future	
Years	2007	2008	2009	2010	2011	Years	Total
\$0	\$1,001	\$0	\$0	\$0	\$0	\$0	\$1,001

		Assessme	ent Factors		
Compliance	<u>Competitive</u> <u>Advantage</u>	Financial Impact	Reliability	Corporate Image	<u>Total</u> Score
0	0	0	66	0	66

Purpose/Objectives:

Construct, Maintain, & Repair, overhead distribution & transmission lines.

MANAGEMENT ACCOUNTDOM

APR 1 1 2006

Scope Description:

Construct, Maintain, & Repair, overhead distribution & transmission lines when needed.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 51 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Resource Needs:

\$896,100.00 for Aerial unit, plus \$105,022.92 Stores OH. See Pillar Spread Sheet:

Justification:

There is no equipment of this type in Hawaii. We need this 150 feet aerial platform unit for construction, maintainance, & repair, of overhead, distribution & transmission lines at any given time e.g. disaster, storm, hurricanes, accidents etc.. This type of equipment will enable our line crews to repair our system transmission line in the most expediant time with high levels of safety. This equipment is much safer then having our crews in a basket, hanging from a cable using a crane to raise them up, which will exposed them to high wind conditions and unstable manuverability.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 52 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

D	lation to	overall	management	operational	objectives and	d consistency	with IRP
L	Hation to	overall	management	operational	objectives and	a consistency	WILLIAM.

Issues, Impacts, Considerations:

This 150 feet aerial manlift platform will enable our linemen to repair tranmission & distribution lines that no other aerial equipment can reach. To transport an equipment of this type to Hawaii will take 6 - 8 week and only if it's available when needed. By having this equipment here in Hawaii, HECO will be able to respond to any type of distribution & transmission line failures, at the most safest operational way possible.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 53 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

Contributions:		
Contributions in aid of construction (CIAC):		
*)	In Kind	NONE
-	In Cash	NONE
Cash Advance		NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party

NONE

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 54 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has already been established in MIMS

PUC Approved: Approval Required Not Required
Approved, Date of Decision & Order: Docket Number:
Awaiting PUC Approval, Application Filed
Authorization for: Engineering Materials Construction
comparable to
Approval Option: Authorize expenditures that are lead than budget \$1,001,123 65 4-11-0
Submitted by: Olayton Yoshah Phone/Ext #: 5683
Originator's Name: CYoshida
Responsible Estimator: CYoshida (Pillar UserID) Resp. Estimator Dept: Support Services (Pillar Department Folder)
Project Manager: CYoshida
Date: 03/29/2006
Required Approvals to Authorize a Project:
Lecily Barnes 3-29-06
Responsible Manager Date
Marocet 1. Tegu 4/5/06.
Responsible Vice President Date
(not reprived for budgeted projects \$1 million and less)
VP, Government and Community Affairs Date
Parsy A Nach 4/11/01
Controller Date
me 4/11/06

If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

Page 5 of 5

Version: Jan06

3/29/2006		*ENTER: Direct Project Cost	Project Cost			6:16AM
*Project #	Line item	EE FY06	FY07	FY08	FY09	FY10
P0001155	Stores OH	3,		\$0.00	\$0.00	\$0.00
P0001155	150 Feet Aerial Platform Tr 201	20.00	\$896,100.00	\$0.00	\$0.00	\$0.00
P0001155		\$0.00	\$1,001,122.92	\$0.00	\$0.00	\$0.00
P1250000	Stores OH	\$53,546.43	\$376,671.39	\$376,966.63	\$306,717.38	\$417,208.19
P1250000	Light Trucks	\$140,760.00	\$1,409,334.00	\$804,073.14	\$813,629.52	\$863,183.22
P1250000	Medium & Heavy Trucks	\$237,660.00	\$1,050,204.75	\$1,717,442.64	\$1,153,004.40	\$1,733,467.18
P1250000	Off Road & Trailers	\$0.00	\$399,381.00	\$319,923.00	\$265,408.56	\$508,146.42
P1250000	Sedans	\$0.00	\$355,000.00	\$375,000.00	\$385,000.00	\$455,000.00
P1250000		\$431,966.43	\$3,590,591.14	\$3,593,405.41	\$2,923,759.86	\$3,977,005.00
		\$431,966.43	\$4,591,714.06	\$3,593,405.41	\$2,923,759.86	\$3,977,005.00

Page 1 of 1

Upd06PED-Jan06-CYoshida.PLN

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 56 OF 63

INTEROFFICE CORRESPONDENCE



Hawaiian Electric Co., Inc.

December 14, 2006

To:

T. M. May

From:

Tayne Sekimura

Subject:

Request to Authorize Construction Expenditures: Ewa Nui and Kamokila Circuit

Rearrange - \$1.7 million

Attached is a Project Identification Form (PIF) for the Ewa Nui and Kamokila Circuit Rearrange project whereby we are seeking your approval to authorize expenditures. Per the Company's authorization policy, the President is required to authorize spending for unbudgeted projects where the total cost is greater than \$1 million. Although this project is unbudgeted, the 2007 budget will be managed to stay within the Board approved amount.

tagne Scler

This project is required to address projected overloads in the Kamokila area from Kapolei to Ko Olina as a result of the deferral of the Ko Olina Substation project.

The scope of work includes the following:

- 1. 12 kV reconnections within the Ewa Nui Substation
- 2. Reconductoring the 12 kV circuit along Farrington Highway from Ewa Nui Substation to Pole 72 utilizing new steel poles
- 3. Installing new underground cable along Farrington Highway and Kamokila Boulevard
- 4. Adding a new switch on P3X Kalaeloa Boulevard
- 5. Installing a new switch at Farrington Highway and Alii Nui Drive
- 6. Installing underground cable on Alii Nui Drive

Should you have any questions, please contact Ken Morikami (7819) or Gail Shimabukuro (7922).

Once approved, please route the signed PIF to Gail Shimabukuro (KS3-KC) for further processing.

Attachment

cc: Ken Morikami

CA-IR-307 DOCKET NO. 2006-0386 **ATTACHMENT 5** PAGE 57 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

Project Title: Ewa Nui & Kamokila Ckt Rearr

Plant Addition Date: 2007-09

Project Number: EOSHIRO20_

Commitment Date: 2007-01

(Temporary)

Primary Corporate Goal: Capital Exp

Stategic Plan Linkage: Reliable & Adequate Pwr Sup

Impact on Goal: Medium

		Proj	ect Forecas	t (Thousand	\$)		
(Attach the	"PR9105-P: I	or PIF" report	obtained from	the estimator	s' Pillar file.)		
Prior						<u>Future</u>	
<u>Years</u>	2006	2007	2008	2009	2010	Years	<u>Total</u>
\$0	\$0	\$1,677	\$0	\$0	\$0	\$0	\$1,677

		Assessme	ent Factors		
Compliance	Competitive Advantage	Financial Impact	Reliability	Corporate Image	<u>Total</u> <u>Score</u>
0	0	0	33	0	33

Purpose/Objectives:

This project is required to address projected overloads in the Kamokila area from Kapolei to Ko Olina and to defer the Ko Olina Substation project.

- 1. Shift loads from the Ko Olina area to Kamokila Substation.
- 2. Shift loads form the Kamokila area to Ewa Nui Substation.
- 3. Relieve forecasted overloads in the Kamokila area.
- 4. Defer the need for Ko Olina Substation.
- 5. Utilize capacity on the Ewa Nui 46-12 kV 10/12.5 MVA transformer #2 being installed with DG #4, 5 and 6.

MANAGEMENT ACCOUNTING

MOV 3 0 2006

Scope Description:

The following components are required:

1. Reconnections within the 12 kV handhole within Ewa Nui Substation.

Reconductor the 12 kV circuit along Farrington Highway from Ewa Nui Substation to Pole 72.
 Underground cable installation along Farrington Highway and Kamokila Boulevard including several cuts and

4. Install new 12 kV switch at Farrington Highway and Alii Nui Drive.

5. Install underground cable on Alii Nui Drive.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 58 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

Resource Needs:

See Pillar file

Justification:

This project will utilize the distribution substation transformer capacity being installed for the Ewa Nui #4-6 DGs to serve the new loads in the Kapolei area and provide increased circuit capacity in the Ko Olina area in order to defer Ko Olina Substation to early 2008.

Area reviews updated in August 2006, project transformer overloads in the Kapolei area under emergency conditions in April 2007. In 2007, the Kamokila 1 transformer emergency rating is exceeded by 11% when the Kamokila 2 transformer fails. Similarly, the Kamokila 2 transformer emergency rating is also exceeded by 11% when Kamokila 1 transformer fails. These overloads account for the phasing in of Kapolei Villages 2, 5, and 8 which will bring an additional 536 residential units to the Kapolei area. The project will also address the CEIP 2 transformer overload projected to occur in 2007. In 2007, the CEIP2 transformer emergency rating is exceeded by 7% when the Kahe 1 transformer or Kahe-Barber's Point 12 kV circuit fails.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 59 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

Relation to overall management operational objectives and consistency with IRP:

Transmission and distribution ("T&D") projects generally are not explicitly considered in the IRP process.

Issues, Impacts, Considerations:

This project will defer the need for the Ko Olina project.

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 60 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

-		L 4	ons:
CO	H	Dut	ions.

Contributions in aid of construction ((CIAC):
--	---------

- In Kind NONE

- In Cash NONE

Cash Advance

NONE

Cost Sharing (under HECO Policy UG Lines, October 2000)

NONE

Other type of payment (cash, non-cash) by outside party

NONE

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 61 OF 63

PROJECT IDENTIFICATION FORM - AUTHORIZE PROJECT

The Project identified below has not been established in MIMS

PUC Approved: Approval Required Not Required
O Approved, Date of Decision & Order: Docket Number:
Awaiting PUC Approval, Application Filed Authorization for: Engineering Materials Construction
Approval Option: Authorize expenditures that are unbudgeted
Submitted by: Carlyn 7. 08hm Phone/Ext #: 7825
Orlginator's Name: E. Oshiro
Responsible Estimator: L. Ikeda Resp. Estimator Dept: Engineering (Pillar UserID) (Pillar Department Folder)
Project Manager: E. Oshiro
REVIEWED & RECOMMENDED FOR APPROVAL:
Required Approvals to Authorize a Project: 1
VP, Government and Community Affairs Date (not required if PUC approval is obtained Faty H Manh 11/29/01 Controller 11/20/02 Date

If project exceeds \$5 million (\$1M unbudgeted), additional approvals are required. Please call Management Accounting at x7729

PRODUCTION CHANGE REQUEST (PCR) FORM

District:	P-HECO
Temporary Project Number: Project Number:	EOSHIRO20_ P0001364
Project Title: (28 characters)	Ewa Nui & Kamokila Ckt Rearr
Short Project Title: (10 characters)	EN & Kamo
Originator Employee's Number:	9705
Person Assigned To:	E. Oshiro
Person Assigned to Employee Number:	9705
Responsibility Area:	PBP
Activity:	416
Location:	OAH
Indicator:	NI ME 11/29/06
Apply AFUDC (yes or no):	Yes myc
Existing Grandparent Project Number: or	
New Grandparent Project Description:	
Pillar Temporary Projects or 5th Segment Projects to link to Grandparent Project above:	
Plant Addition Date:	2007-09
Plant Functional Category:	Distribution w/_
Project or Program:	Project
For Admin use only: Date updated MIMS Prod files: Copy given to Pillar Admin:	

A-A4

Date: 1

11/10/2006

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 5 PAGE 63 OF 63

Page 1 of 1

Shimabukuro, Gail

From:

Miyamoto, Allison on behalf of Financial Systems Analysts

Sent:

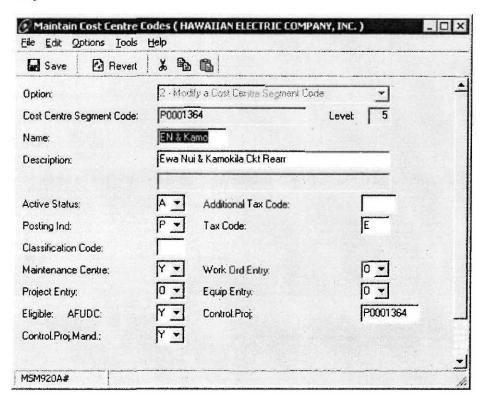
Thursday, November 30, 2006 2:45 PM

To:

Financial Systems Analysts; Okazaki, Lori; Shimabukuro, Gail

Subject: FW: PCR
Attachments: Scan001.PDF

completed



Allison Miyamoto Financial Systems Analyst HECO - General Accounting email: allison.miyamoto@heco.com

Office: 808.543.7992 Fax: 808.203.1638

----Original Message----From: Shimabukuro, Gail

Sent: Thursday, November 30, 2006 2:04 PM

To: Financial Systems Analysts

Subject: PCR

Ref: HECO Plant, CIAC & Advances Exhibits (Updates).

Please update the following exhibits to incorporate actual 2006 values <u>and HECO's current</u> best estimate for 2007, including supporting documentation:

- a. HECO-1601, HECO-1602 & HECO-1603 (Plant Additions).
- b. HECO-1606 (Property Held for Future Use).
- c. HECO-1608 (CIAC).
- d. HECO-1609 (Customer Advances).

HECO Response:

a. See revised HECO-1601, HECO-1602, HECO-1603 (Plant Additions) on pages 1, 2, and 3, respectively, in Attachment 1. These revised exhibits reflect recorded 2006 amounts and the Company's most current estimate of the 2007 test year plant additions. Note that the current estimate of the 2007 test year plant additions is approximately \$6.9 million more than the estimate provided in direct testimony mainly due to 1) projects that were estimated to be completed in 2006 were delayed and are now forecasted to be completed in 2007; and 2) the addition of new projects since the time of the forecast used in direct testimony. Pages 4 through 10 of HECO-WF 1601 (submitted as Attachment 1, pages 4 to 10) have also been revised and updated to provide detail documentation to support the revised 2007 test year plant additions of timate.

In Mr. Morikami's direct testimony (T-16), it was stated that the test year update would reflect preduction of 2007 plant additions from \$3,500,000 to approximately \$400,000 for the AECO PV Ward project. However, the Company now anticipates that this project will not be placed into service until early 2008 so no plant additions are included in the updated

2007 test year plant additions estimate (see the Company's response to CA-IR-315 for more

detail). Also, the revised test year estimate reflects a decrease of approximately \$600,000 for the substitution of the Kuilima Substation DG project with the Ewa Nui Substation DG project which was noted in Mr. Morikami's testimony.

- b. See Attachment 2 for revised HECO-1606 (Property Held for Future Use). The revised HECO-1606 reflects the 2006 recorded balance. Also, as noted in Mr. Morikami's testimony, the Campbell Industrial Park properties' purchase is reflected in the updated 2007 Property Held for Future Use estimate. The cost for this purchase has also been revised to reflect the most recent negotiations with HRPT Properties Trust.
- c. See Attachment 3, page 1, for the updated HECO-1608 (CIAC). Pages 2 through 5 of Attachment 3 reflect the updated HECO-WP-1608 that provides more detail regarding recorded 2006 amounts and the updated 2007 estimates.
- d. See Attachment 4, page 1, for revised HVCO-1609 (Customer Advances). On pages 2 through 4 of Attachment 4, revised VECO-WP-1609 provides more detail regarding recorded 2006 amounts and the apdated 2007 estimates.

			DOCKET NO. 2006 038 PAGE 1 OF 1 REVISED 5/25/37
	Hawaiian Electric	Company, Inc.	
	2006 an	d 2007	
	PLANT AD		
	(\$ Thou	sands)	
	Recorded 2006 Reference	<u>Updated</u> <u>2007</u>	Reference
Projects Programs	\$89,265 CA-IR-309 p 4 41,849 CA-IR-309 p 8	\$66,905 54,667	HECO-WP-1601, p.6 HECO-WP-1601, p10
Total	\$131,114	\$121 72	

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 3 of 10

HECO-1603

DOCKET NO. 2006-0-86 PAGE 1 of 1 REVISED 5/25/0

HAWAIIAN ELECTRIC COMPANY, INC.

PROJECTS OVER \$500,000 (OR \$2,500,000 EFFECTIVE JULY 1, 2004) INCLUDED IN PLANT ADDITIONS

(\$ THOUSANDS)

ESTP ATED PLANT ADDITIONS

				LOI	MAILD	LLAINIA	DDITION	2	
DOCKET	D&O			4	7		FUTURE		
NO.	NO.	<u>ITEM</u>	DESCRIPTION	Prior Year	2006	2007	YEARS	TC	DTAL
01-0189	18660	P0000143	Salt Lake Boulevard Widening Ph 2	1/16	2,958	1	0	\$	4,875
04-0051	21124	P0000454	K6 Fan Enclosure	772	74	0	0	\$	846
01-0135	18680	P0000474	Waialua Sugar Privatization	1,346	214	170	0	\$	1,730
01-0274	20436	P0000507	Kam Hy Resurf Waiahole-Cr Ln	2,002	0	26	0	\$	2,028
03-0220	20626	P0000832	Waiau 3 Main Transformer Replace	894	1	0	0	\$	895
04-0021	20918	P0000886	Wal-Mart Sam's Keeaumoku	1,713	0	0	0	\$	1,713
04-0104	22294	P0000939	Waiau CT Separation	786	143	28	0	\$	957
05-0146		Y00064	Community Givebacks	0	9	932	7,189	\$	8,130
02-0207	19775	P9454000	K4 Boiler Controls Upgrad	2,008	2,553	94	0	\$	4,655
02-0206	19774	P9539000	K3 Boiler Control Upgrate	460	291	3,414	63	\$	4,228
01-0228	21918	Y00017	Waikiki Rehab Project	307	325	16	0	\$	648
03-0260	21003	Y00021	New Kuahua Substruon	9,337	744	3	0	\$	10,084
00-0040	18292	Y00023	Ward Air Condity ning Replace	7,676	325	230	0	\$	8,231
02-0142	19915	Y00027	Mokuone Substation	6,237	626	0	0	\$	6,863
03-0124	20407	Y00029	Telecommur cations System	4,642	0	0	0	\$	4,642
03-0360	21224	Y00030	New Disp, ch Center	18,879	6,807	1,748	262	\$	27,696
01-0444	19875	Y00032	Waiau Fael Oil Pipeline	40,571	41	0	0	\$	40,612
04-0350	21993	Y00039	Mamy a Substation	743	164	5,299	3	\$	6,209
04-0278	21692	Y00040	For Island Substation	19,737	4,747	40	0	\$	24,524
05-0056	22001	Y00044	Yo Olina Substation	197	1,124	2,945	273	\$	4,539
05-0217	22201	Y00045	Ocean Pointe Substation	119	3,431	21	0	\$	3,571
02-0413	20089	Y00047	Puuloa Road Widening	1,496	24	203	93	\$	1,816

HECO-WP-1601 DOCKET NO. 2006-0386 PAGE 6 OF 10

Hawaiian Electric Company, Inc.

						-			
	Projected Completion	Project to Date Recorded			xpenditure				
	Date	12/31/05	2006	2007	2008	2009	2010 0	2011	<u>Tota</u> 520,875
	2007/04 2007/06	0	81 220,767	520,794 73,338	0	0	0	0	294,10
			AND AND ASSESSED AND ASSESSED.				0.4	0	551,02
					0	o		0	158,91
		Ō	0	49,431	0	0	10	0	49,43
- 2007	2007/12	0	0	39,318	0	0	0	0	39,31
			0	1,008,347		0	40 SASS.		1,008,34
				GAR COGNICATION CONTROL					157,13
			V 2000 2 V 4		0	0			53,36 162,57
					04	1000			1,709,49
	2007/01	Ō	37,059	8		0	0	0	37,06
s Mgmt	2007/07	0	283,061	7,724	0	0	0	0	290,78
	2007/06	0	13,801	377	0	0	0	0	14,17
									6,69
(A) 				2,349					88,43 94
				4					15,62
		o	100	133 86	0	0	0	0	185,56
		0	3,047	27 0,405	0	0	0	0	232,45
nt :	2007/05	0	0	76,458	20,051	0	0	0	396,50
	2007/10		0						207,63
			2						517,76
			0	56-73-00B					240,80 471,68
									219,42
	2007/04	o	0	241,709	0	0	0	0	241,70
	2007/10	0	0	329,220	0	0	0	0	329,22
AND THE RESERVE OF THE PROPERTY OF THE PROPERT	2007/05	9	0	192,139	0	0	0	0	192,13
Large Marie Marie 1						3.5			241,46
		0			V1000000000000000000000000000000000000				333,73 555,07
					AND AND SOUTH STORY				625,07
		o	0		ō	0	ō	ō	636,44
	2007/08	106,554	2,950	30,324	0	0	0	0	139,82
l Upgrade	2007/09	460,365	291,101	3,414,330	63,414	1	0	0	4,229,21
stallation	2007/09	0	0	154,332	0	0	0	0	154,33
		6,017,485	14,812,400	42,611,378	1,336,207	20,583	23,244	17,060	64,838,35
<u> </u>						ge 8)			3,463,749
	A.A.								-1,336,20
									-20,58 -23,24
									-17,06
			-	Total Projects	5			-	\$66,905,012
	- 2007 2 - Mamala t. OH to UG rnstile Gate okila Ckt Rearr Relocation is Mgmt is is Mgmt 2 is 2 ess Road ipbell Ducts	a OH Relocation 2007/12 ty 2 - 2007 2007/12 - 2007/12 - 2007/12 2007/12 2007/12 2007/12 2007/12 2007/12 2007/12 2007/12 2007/13 2007/11 2007/05 20007/05 200007/05 200000000000000000000000000000000000	a OH Relocation 2007/12 0 ty 2 - 2007 2007/12 0 2- 2007 2007/12 0 2- Mamala 2007/10 0 trostile Gate 2007/01 0 ckila Ckt Rearr 2007/09 0 ckila Ckt Rearr 2007/04 0 ckila Ckt Rearr 2007/06 0 ckila Ckt Rearr 2007/05 0 ckila Ckt Re	a OH Relocation 2007/12	a OH Relocation 2007/12	a OH Relocation 2007/12	A OH Relocation 2007/12	A OH Relocation 2007/12	A OH Relocation 2007/12

CA-IR-307 DOCKET NO. 2006-0386 ATTACHMENT 3 PAGE 5 OF 5

HECO-WF-1608 DOCKET NO. 2006-0386 PASE 4 OF 4 REVISED 5/25/07

HAWAIIAN ELECTRIC COMPANY, INC. In-Kind CIAC

		2003	2007
Project #	Project	Actual	Update
P0000507	Kam Hy-Resurf Waiahole-Cr Ln		26,303
P0000530	Ka lwi 12kV UG, Ph1 Inc 2		129,234
P0000598	Kahekili Hy Ltg OH/UG Conv		13,200
P0000611	Kaneohe Bay Dr Improvements	-	86,337
P0000764	H-1 Widening Waimalu Reloc		98,466
P0000834	46 kV Fdrs to Mamala Sub	-	3,000,000
P0001046	Palehua East B 46kV UG PH 2	-	100,000
P0001072	Kakaako ID 12		475,610
P0001075	Kam Hy-Kokololio Bridge Tem 5	(≐	2,300
P0001268	Capitol Place Relocation V910	-	25,000
P0001306	Mililani Mauka Offsite Phage 16	: .	137,270
P0001343	Walmart Manana OH Relocation	:■	12,059
P0001357	Kapolei Pkwy Ext. OH to UG	15.	55,062
P1690000	Minor T&D Custome Programs		11,608
P1700000	Misc UG Svc & Ex n (CID)	1,468,282	2,294,598
		1,468,282	6,467,047